IVAN M. JOHNSTON'S STUDIES IN THE BORAGINACEAE

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Ivan M. Johnston's Studies in the Boraginaceae

James S. Miller
Mary Sue Taylor
& Erin Rempala

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TABLE OF CONTENTS

PREFACE 1

INTRODUCTION 2

IVAN MURRAY JOHNSTON'S RESEARCH CAREER 2

IVAN M. JOHNSTON'S PUBLICATIONS ON BORAGINACEAE 12

INDEX TO THE "STUDIES IN THE BORAGINACEAE" 14

LITERATURE CITED 15

A CATALOG OF THE CORRESPONDENCE OF IVAN M. JOHNSTON 19

AN INDEX TO THE BOTANICAL NAMES TREATED IN IVAN M. JOHNSTON'S "STUDIES IN THE BORAGINACEAE" 24

APPENDICES

APPENDIX 1. PUBLICATIONS OF IVAN M. JOHNSTON 95

APPENDIX 2. TYPES OF IVAN M. JOHNSTON BY BINOMIAL 100

APPENDIX 3. TYPES OF IVAN M. JOHNSTON BY COLLECTOR 121

Preface

During his 38-year career at Harvard University, Ivan Murray Johnston focused his research on the systematics of Boraginaceae, and his results were largely published in a series of 31 journal articles entitled "Studies in the Boraginaceae." These appeared as a numbered series between 1923 and 1961, with subtitles giving some indication of the subject matter presented, yet all but one lacked an index to the taxa that were treated. Cumulatively they represent an enormous contribution to our present understanding of the taxonomy of the Boraginaceae, but the format in which they were published makes it difficult to access the information easily. The present contribution is an index to the botanical names in Johnston's "Studies in the Boraginaceae." Introductory material discusses Johnston's career, including his other research interests, but this volume is not intended to be a complete history of his life and accomplishments. An explanation of how the index was prepared, a complete list of all of Johnston's research publications, and indices to the type specimens of names published by Johnston are also provided.

This project grew out of a personal effort by the first author to index Johnston's publications as a tool for further monographic studies on the Boraginaceae. The suggestion to revise and publish this came from many people, but Joan Nowicke, Michael Frohlich, and Harald Riedl were especially encouraging. Checking the numerous references, standardizing abbreviations for authorities, and assembling information about Johnston's life, the names he published, and the types of the names that he published were time-consuming and often tedious tasks that could not have been completed without the two coauthors. Sue Taylor helped proofread and check all of the index entries and assembled the appendices cataloging Johnston's names, types, and publications, and Erin Rempala did the majority of the work standardizing author citations, many of which required consulting the original literature to resolve ambiguous citations. Several other colleagues at the Missouri Botanical Garden assisted either in finding or photocopying additional research materials. The authors would like to especially thank Roy Cummings and Heidi Schmidt for their assistance.

Emily Wood and the staff of the Harvard University Botanical Libraries, particularly Sheila Conner of the Arnold Arboretum, helped find Johnston's correspondence that remains at Harvard. Following his death, Johnston's research materials were destined for the Texas Research Foundation, which was dissolved in 1972. While some available correspondence provides a bit of information, the final disposition of Johnston's correspondence and field books remains a mystery. John Kirkpatrick, of the Harry Ransom Humanities Research Center at the University of Texas at Austin, helped locate Johnston's correspondence with Donovan Correll. Billie Turner willingly provided access to his personal correspondence with Johnston. Barney Lipscomb provided assistance at BRIT, and Larry Sall, of the University of Texas at Dallas, helped confirm that none of Johnston's material had ended up there with Lundell. Finally, this whole project benefited tremendously from assistance from the library staff at the Missouri Botanical Garden. Martha Riley and Doug Holland helped find archival materials. Teri-Ann Wallace helped obtain materials through inter-library loan, and Linda Oestry helped locate necessary references. As the project was concluded, Joseph Ewan discussed much of the history surrounding Johnston's career and helped place his actions in the context of the botanical community at the time. His advice added greatly to the work.

INTRODUCTION

No single botanist has had as great an impact on our present state of knowledge of the systematics of Boraginaceae as Ivan Murray Johnston. The family was his primary research interest during his 38-year career at Harvard University. In addition to his contributions to our present understanding of relationships and classification, he published 215 new names in the family, accounting for about 10% of the presently recognized species. Only the combined efforts of Augustin Pyramus and Alphonso de Candolle in the *Prodromus Systematis Naturalis Regni Vegetabilis* (de Candolle, 1845, 1846), where they published more than 350 species and nearly 500 new taxa of Boraginaceae, could attempt to claim a larger number, but their work is much less detailed, a much smaller percentage of their species are accepted by modern authors, and their classification was much less refined than that of Johnston.

Although Johnston focused intensively on Boraginaceae, his interests were broad and covered many subjects, perhaps best described in his own words in a letter dated 10 June 1957 to an old friend in California:

> "I am, as you may know, a systematic botanist with a monographic interest in the family Boraginaceae, and a general interest in plants of Latin America. Before the war I was working on the flora of the intermontane states of northern Mexico (those south of Texas and New Mexico) and since then have been working in Panama and for a time of the flora of southeastern Asia. My love of desert plants and floras still persists but of late I seem to have been occupied most of the time with the analysis of tropical forests for the Army."

While a great deal can be learned of Johnston's research interests through his publications, the more personal side of his life is a bit more difficult to follow. His last 10 years at Harvard were not happy ones, as he became embittered over the merging of the Arnold Arboretum and Gray Herbarium libraries and herbaria. Shortly before his death, he had decided to move to the Texas Research Foundation. His science library, presumably containing the major part of his correspondence and his field books, was to become part of the library of the Texas Research Foundation (Correll, 1961). The foundation closed on the first of September 1972 and the herbarium and library were transferred to the University of Texas, Austin (Turner, 1973), but Johnston's materials either never made it to the foundation or they were separated and lost when the foundation was dissolved.

IVAN MURRAY JOHNSTON'S RESEARCH CAREER

Ivan Murray Johnston was born on February 28, 1898, in Los Angeles, California, where his parents, William Murray Johnston, a locally prominent physician, and Etta Farnsworth Johnston, had emigrated in 1895. He attended public school in Los Angeles and began collecting plants in southern California as a high school student. He roamed the area where he lived and collected along streams and the coast. He later wrote to botanist and botanical historian Joseph Ewan that "I was born on Pico Street and used to go swimming just beyond Western Ave. not to mention stealing watermelons near Brea pits." His affection for the area lasted his entire life, and he later lamented the unique biological environments that had been destroyed by development in the Los Angles area. His specimens were pressed and labeled with a great deal of care, and this interest in specimen quality was later a frequent topic in his correspondence and publications. He began corresponding with botanists at nearby universities, and also in other parts of the country, before he began college. Much of this correspondence would result in life-long professional relationships.

In 1916, Johnston began his undergraduate studies at Pomona College, in Claremont, California, where he studied botany with Philip Munz and began building his relationships with the major figures in botanical research in California at the time (Munz, 1961). He transferred to the University of

California at Berkeley in 1918 and received his A.B. degree with Highest Honors in Botany in 1920. He continued his studies at Berkeley and received his M.A. in 1922. During the summers of 1919, 1920, and 1922, he also kept botanically busy working at the Pike's Peak alpine laboratory of the Carnegie Institution with F. E. Clements and Harvey M. Hall (Howard, 1961; Munz, 1961).

From mid April to mid July 1921, Johnston took a leave from his master's studies and served as the botanical collector on the California Academy of Sciences expedition to the Gulf of California. As was to characterize his work throughout his career, Johnston returned home from his trip and published a 233-page article only three years later. His published account (Johnston, 1924c) is an excellent example of his ability to incorporate geological, geographical, and climatalogical information into his understanding of species. His introduction provides an excellent review of the physical features and geology of the region. During the trip, Johnston made about 1500 collections on 30 islands in the Gulf, 5 sites in Sonora, and 14 localities on mainland Baja California (Johnston, 1924c). The collection represented approximately 300 species, of which about 50 were new to science (Evermann, 1921). Then-director of the museum at the California Academy of Sciences, B. W. Evermann, wrote in his Director's Report for 1921, "Specialists who have examined some of the groups assert that, in spite of the fact that the time when the collecting was done was the most unfavorable of the year, it is the best collection ever made in that little explored region." In addition to his collections of vascular plants, Johnston kept a separate number series for the marine algae, which he also collected. William Albert Setchell and Nathan Lyon Gardner (1924) described 60 new species from his collections, 14 of them named after him (Table 1).

During both high school and his undergraduate college years, Johnston developed professional relationships with the prominent botanists in California, and also with botanists in other parts of the country. One of those who most influenced Johnston was J. Francis Macbride, then at the Gray Herbarium at Harvard (later at the Field Museum in Chicago). Johnston had expressed his opinion to Macbride as early as 1918 that some of the Boraginaceae of the American Southwest were in dire need of study; it was Macbride's suggestion that Johnston continue with his graduate studies at Harvard (Howard, 1961; Mangelsdorf et al., 1961).

Johnston moved to the East Coast to begin doctoral studies at Harvard under the direction of B. L. Robinson in the fall of 1922. He received his doctorate in 1925 following approval of his dissertation by his graduate committee of Robinson, Oakes Ames, and Merrit L. Fernald. His thesis, entitled "The North American Species of *Cryptantha*," was published as the fourth article in his "Studies in the Boraginaceae" (Johnston, 1925a).

With the encouragement of Robinson, Johnston was awarded a Sheldon Traveling Fellowship, which allowed him to travel to and conduct fieldwork in Chile from 1 October 1925 to 31 May 1926. During this trip he developed a series of friendships that lasted his entire life; the respect his South American colleagues held for him is evidenced by the number of memorial articles published following his death (Ferreyra, 1960; Looser, 1961; Ruiz Leal, 1961). Both his guide to the preparation of botanical specimens for the herbarium (Johnston, 1939c) and his article "The floristic significance of shrubs common to North and South American deserts" (Johnston, 1940c) were re-published in Spanish (Johnston, 1941c, 1941d).

On 18 and 19 October 1925, Johnston collected the extraordinarily dry Nitrate Coast of northern Chile during an unusually wet year for the region. He gathered 86 collections in the region, 52 from a steep quebrada north of Tocopilla and 34 from the base of the hills north of Antofagasta. Between 28 October and 10 January, Johnston made 930 collections in the northern provinces of Chañaral and Taltal (Johnston, 1929c), which were the basis of his 137-page publication on the region three years after his fieldwork. While he collected wherever he could, he seemed particularly interested in the vegetation regularly covered by sea-fog, from altitudes of 300 to 800 m, between Barquito and Paposo. Many of the plants he described bear specific epithets commemorating the towns of the region.

On 10 January 1926, Johnston crossed the border through the Paso de Valeriano, into the drainage of the Río de la Tagua, in the high cordilleras of Argentina. He collected in this high-mountain region from 3000 to 4425 m for five days before returning to Chile late in the afternoon of 15 January with 121 collections from this poorly known area, including many new distributional records, seven new species, and a new variety (Johnston, 1929b).

Table 1. Types of marine algae collected by Ivan Johnston on the California Academy of Sciences exploration of the Gulf of California in 1921. S. & G. = Setch. & N. L. Gardner.

Coll. No.	Family	Species
1	Rhodophyllidaceae	*Hypnea johnstonii* S. & G.
2	Sargassaceae	*Sargassum guardiense* S. & G.
8	Codiaceae	*Codia simulans* S. & G.
8a	Oscillatoriaceae	*Hydrocoleum codicola* S. & G.
9e	Rivulariaceae	*Calothrix nodulosa* S. & G.
11	Sargassaceae	*Sargassum insulare* S. & G.
11b	Corynophyloeaceae	*Gonodia johnstonii* S. & G.
13a	Chamaesiphonaceae	*Xenococcus deformans* S. & G.
16	Codiaceae	*Codium conjunctum* S. & G.
18b	Rhodomelaceae	*Laurencia obtusiuscula* var. *corymbifera* S. & G.
21	Rhodophyllidaceae	*Corallopsis excavata* S. & G. (syntype with *Johnston 59*)
23	Gelidiaceae	*Gelidium decompositum* S. & G.
24	Encoeliaceae	*Colpomenia sinuosa* f. *expansissima* S. & G.
26	Chaetophoraceae	*Entocladia condensata* S. & G.
27	Gelidiaceae	*Gelidium johnstonii* S. & G.
27a	Ceramiaceae	*Ceramium procumbens* S. & G.
32	Dictyotaceae	*Dictyota hesperia* S. & G.
34c	Chamaesiphonaceae	*Dermocarpa reinschii* S. & G.
36	Rhodophyllidaceae	*Gracilaria vivipara* S. & G.
41	Rhodomelaceae	*Polysiphonia sinicola* S. & G.
42	Codiaceae	*Codium reductum* S. & G.
44	Rhodophyllidaceae	*Gracilaria pinnata* S. & G.
47	Codiaceae	*Codium cuneatum* S. & G.
47e	Ectocarpaceae	*Ectocarpus gonodioides* S. & G.
49b	Chaetophoraceae	*Entocladia mexicana* S. & G.
53b	Ceramiaceae	*Callithamnion endovagum* S. & G.
53c	Rhodomelaceae	*Laurencia estebaniana* S. & G.
53e	Grateloupiaceae	*Prionitis abbreviata* S. & G.
56	Nemastomaceae	*Schizymenia johnstonii* S. & G.
58b	Myrionemataceae	*Compsonema immixtum* S. & G.
59	Rhodophyllidaceae	*Corallopsis excavata* S. & G. (syntype with *Johnston 21*)
60	Grateloupiaceae	*Grateloupia squarrulosa* S. & G.
62	Rhodophyllidaceae	*Gracilaria johnstonii* S. & G.

62a	Ceramiaceae	*Ceramium bicorne* S. & G.
67b	Ceramiaceae	*Ceramium sinicola* S. & G.
71	Sargassaceae	*Sargassum johnstonii* S. & G.
72	Sargassaceae	*Sargassum herporhizum* S. & G.
74	Codiaceae	*Codium amplivesiculatum* S. & G.
74a	Codiaceae	*Codium unilaterale* S. & G.
74b	Codiaceae	*Codium longiramosum* S. & G.
81	Dictyotaceae	*Dictyota johnstonii* S. & G.
82	Nemastomaceae	*Schizymenia violacea* S. & G.
84	Rhodophyllidaceae	*Euchema johnstonii* S. & G. (syntype with *Johnston 88b*)
84e	Codiaceae	*Codium anastomosans* S. & G.
85	Grateloupiaceae	*Polyopes sinicola* S. & G.
86	Rhodophyllidaceae	*Eucheuma uncinatum* S. & G.
88	Grateloupiaceae	*Grateloupia johnstonii* S. & G.
88b	Rhodophyllidaceae	*Euchema johnstonii* S. & G. (syntype with *Johnston 84*)
102	Gigartinaceae	*Gymnogongrus carnosus* S. & G.
104	Ceramiaceae	*Ceramium johnstonii* S. & G.
105	Gigartinaceae	*Callymenia pertusa* S. & G.
107	Rhodophyllidaceae	*Anatheca elongata* S. & G.
108	Rhodophyllidaceae	*Gracilaria sinicola* S. & G.
110	Rhodomelaceae	*Polysiphonia johnstonii* S. & G.
113	Grateloupiaceae	*Grateloupia howeii* S. & G.
114		*Scinaia johnstonae* S. & G.
115	Grateloupiaceae	*Estebania conjuncta* S. & G.
118	Gigartinaceae	*Callophyllis johnstonii* S. & G.
121	Grateloupiaceae	*Grateloupia acroidalea* S. & G.
122	Rhodophyllidaceae	*Gracilaria pachydermatica* S. & G.
127	Rhodomelaceae	*Laurencia johnstonii* S. & G.
135	Cladophoraceae	*Cladophoropsis rubusta* S. & G.
135a	Myxophyceae	*Chlorogloea regularis* S. & G.
162	Rivulariaceae	*Calothrix nidulans* S. & G.

When Johnston first came to Harvard as a student, he was offered an Austin Fellowship but chose to work instead as an assistant in the Gray Herbarium, a position he held for nine years beginning in 1922. During these years he made trips to Europe in 1927 and 1929 and began his thorough examination of types of Boraginaceae housed in the major European collections.

With the encouragement of Oakes Ames, who had been appointed supervisor of the Harvard University herbaria, Johnston accepted a position of Research Associate in the Arnold Arboretum on 31 August 1931, where he remained for the rest of his professional career. Late in 1932, shortly after he married Mildred Williamson, the couple left for an extended tour of European herbaria that lasted nearly a year. He visited the collections in London, Amsterdam, Berlin, Munich, Geneva, and Paris; this lengthy examination of the historical specimens and types and the critical notes that he made had a great effect on the future of his research. However, this was a trip of mixed emotions for Johnston as revealed by his regular correspondence with Ethyl Antoinette Anderson, then business secretary at the Arnold Arboretum. He reveled in being a tourist in Europe and in having a chance to work in such

rich botanical collections, but also struggled with homesickness, particularly as Europe readied for World War II. On 14 September 1933 he wrote to Miss Anderson complaining about the Nazi censorship of mail: "The World has gone crazy and I find I am increasingly longing to get home among my own brand of nuts." He later continued, "No one will ever hear me complain again in Boston—or well, not for a time after I do get back."

He was appointed lecturer in 1934 and traveled to the Atkins Institution of the Arnold Arboretum in Soledad, Cuba, to gather plant material for a course he planned to teach. His work at the Arboretum continued, and he was promoted to Associate Professor in 1938. This was a happy and successful part of his career, mixing herbarium studies with stints in the field. On 31 August 1938 he wrote to Professor Merrill from Saltillo, Mexico, where he was collecting with Forrest Shreve and Thomas Mallery, colleagues from the Tucson Laboratory of Desert Investigations of the Carnegie Institution: "I am having a perfectly glorious time, feeling grand, and am tanned dark as a Mexican. Gosh it is good to be in the field again, studying and collecting plants. I had not realized how much I have missed the field these past five years during which I have worn pressed pants, had combed hair and regular baths. At present I am the tangliest looking member of the party and Shreve and Mallery have to introduce me as a Harvard Professor—which no one believes!"

His fieldwork in northern Mexico was an inventory of the desert plateau situated between the eastern and western parts of the Sierra Madre of northern Mexico and included almost all of Coahuila, the eastern parts of Chihuahua and Durango, and the northern part of Zacatecas. His flora of the region (Table 2) was based on historical collections from the region, particularly those of C. G. Pringle and E. Palmer, and those of his contemporaries, including C. H. Müller, F. Shreve, and R. Stewart, but the project was most forcefully driven by his own collecting efforts.

Table 2. A catalog of the plant families treated in "Plants of Coahuila, Eastern Chihuahua, and adjoining Zacatecas and Durango." Volume and page numbers are from the *Journal of the Arnold Arboretum,* where the series was published. The flora was never completed, and parts 4 and 5 were published out of order.

Part	Family	Author	Volume	Pages
1	Polypodiaceae	C. A. Weatherby	24	308–324
1	Schizeaceae	C. A. Weatherby	24	324
1	Marsileaceae	C. A. Weatherby	24	324–325
1	Psilotaceae	C. A. Weatherby	24	325
1	Equisetaceae	C. A. Weatherby	24	325
1	Selaginellaceae	C. A. Weatherby	24	325–329
1	Pinaceae	I. M. Johnston	24	329–335
1	Taxodiaceae	I. M. Johnston	24	335
1	Cupressaceae	I. M. Johnston	24	336–338
1	Ephedraceae	I. M. Johnston	24	338–339
2	Typhaceae	I. M. Johnston	24	375
2	Naiadaceae	I. M. Johnston	24	275
2	Potamogetonaceae	I. M. Johnston	24	375
2	Alismataceae	I. M. Johnston	24	376
2	Graminae	I. M. Johnston	24	376–421
3	Cyperaceae	H. K. Svenson	25	43–50
3	Palmae	I. M. Johnston	25	50–51
3	Lemnaceae	I. M. Johnston	25	51

3	Commelinaceae	I. M. Johnston	25	51–54
3	Pontederiaceae	I. M. Johnston	25	54
3	Bromeliaceae	I. M. Johnston	25	54–56
3	Juncaceae	F. J. Hermann	25	56–59
3	Liliaceae	I. M. Johnston	25	59–75
3	Amaryllidaceae	I. M. Johnston	25	75–79
3	Iridaceae	I. M. Johnston	25	79–80
3	Orchidaceae	Identifications by L. O. Williams	25	81–83
4	Saururaceae	I. M. Johnston	25	431
4	Salicaceae	I. M. Johnston	25	431–435
4	Juglandaceae	I. M. Johnston	25	435–437
4	Betulaceae	I. M. Johnston	25	437
4	Fagaceae	C. H. Müller	25	437–450
4	Ulmaceae	I. M. Johnston	25	450–452
4	Moraceae	I. M. Johnston	25	452
4	Urticaceae	I. M. Johnston	25	452–453
5	Loranthaceae	I. M. Johnston	25	133–135
5	Santalaceae	I. M. Johnston	25	135
5	Rafflesiaceae	I. M. Johnston	25	135–136
5	Aristolochiaceae	I. M. Johnston	25	136–138
5	Polygonaceae	I. M. Johnston	25	138–144
5	Chenopodiaceae	I. M. Johnston	25	144–153
5	Amaranthaceae	I. M. Johnston	25	153–162
5	Nyctaginaceae	I. M. Johnston	25	162–182

In 1938, Richard Howard began his doctoral studies at Harvard and elected to study with Johnston as his major professor. Howard chose to study the systematics of Icacinaceae, and I. W. Bailey, who also served on his graduate committee, induced him to include anatomical studies in his research. Howard completed his studies in four years and received his doctoral degree in 1942.

In the 1940s Johnston remained active in the field, continuing his work in the deserts of northern Mexico in 1940 with C. H. Müller and by himself in 1941. He also made trips to Panama in 1944, 1945, and 1946, and he continually set his standards high, both in terms of new discoveries and specimen quality. On 18 September 1941, he again wrote to Merrill, this time from Ocampo, in Coahuila, Mexico: "I think I have a new *Fraxinus* for my new species today. I am running ahead of my scheduled 'one species a day.'" He always made well-prepared specimens according to the guidelines he formulated (formally published in Johnston, 1939c) that had a wealth of label data recorded. The extensive data recorded in his field books served as the heart of what he considered to be the real contribution of fieldwork. He used his field notes to reconstruct and convey the observations he made in Baja California (Johnston, 1924c), Argentina (Johnston, 1929b), Chile (Johnston, 1929c, 1930b), Peru (Johnston, 1929d), Mexico (Johnston, 1939a, 1940a, 1940b, 1940c, 1941a, 1941b, 1943a, 1943b, 1943d, 1943e, 1944a, 1944b, 1944c, 1948a, 1950b), and Panama (Johnston, 1945, 1949b). He wrote to J. Ewan on 16 September 1933 that the collectors "Pringle in Mexico, Ekman in the West Indies, or Dusen in Brazil and Argentina" were famous for their "discrimination and for the quality of specimens and the fullness of their labeling." He added that "Trash with scanty indecipherable labels only waste time and money" and that "thorough collecting near home and on a five cent fare is of greater need botanically than a

botanical junket to the Mohave," and on 27 November 1933 he added that it was more important to be "saying something new or making new observations."

More than many of the field botanists of his time, Johnston seemed ahead in the amount of time, effort, and thought he gave to the quality of the specimens he collected. He published a paper entitled "The preparation of botanical specimens for the herbarium" (Johnston, 1939c), and the subject was frequently addressed openly in his correspondence. One of his most frequent correspondents was U. T. Waterfall, to whom he frequently passed advice about specimen quality. He sent Waterfall a lengthy critique of his specimens on 22 September 1943 and concluded with "One more thing: with small annuals such as *Pectis*, *Euphorbia* etc. get enough so that with each specimen the herbarium sheet will be reasonably well filled when the plants are mounted. Some of your specimens of this class are a bit on the skimpy side." This was typical of both his straightforward manner and his compulsive attention to detail with specimens. He was more blunt with C. L. Lundell when on 29 August 1942 he wrote, "You do make handsome specimens. I hope you show some of them to the Texan botanists you meet, for I do not believe that Texan botanists know what a first-rate specimen looks like. Certainly the level of quality in botanical collecting by Texans is the lowest in the USA." Lundell responded, with a bit more politesse, that he would try and pass some of Johnston's suggestions on to collectors in Texas, but he could not risk insulting the botanists on whose work the progress of his flora depended.

In 1944, the U.S. Army selected San Jose Island, in the Gulf of Panama, as a tropical test site for the Chemical Warfare Service. The island was practically unknown botanically, and Johnston was employed by Division 10 of the Office of Scientific Research and Development as Scientific Advisor. He traveled to the island and collected plants from 29 September to 16 November 1944 and later made additional trips from 22 March to 2 May 1945 and 22 December 1945 to 19 February 1946 under the auspices of the service, which had been reorganized as the Chemical Corps. C. O. Erlanson, of the U.S.D.A., also participated in the collecting in 1945, and Johnston's report on the vegetation and catalog of the flora (Johnston, 1949b), once again published three years after the fieldwork was completed, was based on both of their collections.

In 1947, Johnston was promoted to supervisor of the herbarium and library of the Arnold Arboretum, and he became associate director the following year, a position he held until 1954. He seems to have taken on this responsibility with relish, and his correspondence from this time indicates an energetic interest in the growth of the Arboretum herbarium and library holdings, graduate students associated with the program, and the exchange and curation of specimens in the collection. Shiu-ying Hu came from China to the Arnold Arboretum in 1946 to study with Elmer Merrill. Johnston played an active role in her studies, and her dissertation on Chinese *Ilex* L. was sponsored by Merrill and Johnston. He continued to publish prolifically, and during this period produced several articles in the "Studies in the Boraginaceae" devoted to the Lithospermae, some of his most careful and detailed research (Johnston, 1952, 1953a, 1953d, 1954a, 1954b). His work on the Lithospermae combined his careful morphological and geographical analysis of specimens with a thorough study of palynology, resulting in significant changes in the classification of the tribe.

In the mid 1940s, plans began to materialize for the incorporation of the Arnold Arboretum herbarium and library with that of the Gray Herbarium. The plan initially had Johnston's full enthusiastic support, as he indicated in a letter of 12 August 1946 to his friend U. T. Waterfall: "The whole botanical setup at Harvard is being reorganized, we are to unite under one roof and one direction the Gray herb., the Farlow Herb, and the herbarium and library of the Arboretum, and we are now planning the new building and getting the organization worked out. Merrill and Fernald have retired or will do so after this academic year. It is a revolution. There have been endless conferences. I am very pleased with the prospects, but it is going to take time and headaches before we can get union and things functioning under the new plan." As the merge of the two collections progressed, however,

Johnston's view of the situation changed dramatically, and by 1949 he vigorously opposed the reorganization.

The 1950s at Harvard were even more difficult for Johnston as he became increasingly embroiled in the internal politics regarding the merging of the Arnold Arboretum herbarium and library with that of the Gray Herbarium (Howard, 1961; Mangelsdorf et al., 1961). In September of 1954, he wrote to W. Andrew Archer, Bureau of Plant Industry (Beltsville, Maryland), "The big noise about the breakup of the Arboretum, particularly the spending of half or more of its income in Cambridge, is about to break in the law suits to begin in October. Personally I think there is better than a 50/50 chance that a breach of trust will be proved against the University and that the herbarium and library will be moved back to Jamaica Plain."

By the mid 1950s Johnston's dispute had intensified, and he was increasingly critical in his correspondence. He took his first ever sabbatical leave starting 1 January 1956, but returned to the same situation that he had left and by late summer, on 29 August 1956, he wrote to John Dwyer at the Missouri Botanical Garden, "Here at the Arboretum things have been tense." Much of his correspondence from the mid and late1950s contains extensive passages complaining about his situation, and it was clear that by this time it had reached a point where it dominated his work life, and his difficulty adapting to the new arrangement began to impede his continuing research. He almost systematically included in his letters from the period long passages about the situation, and his letter to J. E. Dandy, of the British Museum of Natural History, on 13 January 1958 was typical. He wrote, "My work on the Boraginaceae has been brought to a close for I no longer have access to the collections in the herbarium of the University nor to the books in the herbarium library. I have been denied an office in the Herbarium Bldg. and so many insulting restrictions have been placed on my entry and use of the collections that I refuse to have any thing to do with them. I am being punished because, along with Ames, Merrill, and Sax, also botany professors at Harvard, I spoke up in defense of taxonomy ...." This response was to a letter in which Dandy had inquired about the place of publication of the combination *Pentaglottis sempervirens* (L.) Tausch.

Shortly after he returned from his sabbatical in the first half of 1956, he began to spend his summers conducting fieldwork in Texas and northern Mexico with his friend Donovan Correll, who had joined the Texas Research Foundation on 1 September 1956. Correll had been hired by C. L. Lundell to expedite work on the *Flora of Texas* (Roddy, 1967), and he invited Johnston to accompany him during his fieldwork in the summers. By 1958 Johnston was clearly considering leaving Harvard and moving to Texas to work with Correll on the *Flora of Texas* (Correll, 1961; Munz, 1961). On 30 September 1958 Correll wrote, "I can understand your restless feeling, what with Dr. Sax leaving and the situation at Harvard as it is." He inquired about the retirement situation at Harvard and asked Johnston, "Have you considered the possibility of applying for a National Science Foundation grant for further work on northern Mexico and then taking a year's leave-of-absence so as to get away from it all?" He continued to work and correspond with Correll, and they decided to submit a proposal to the National Science Foundation that would support Johnston's work on the Flora of Texas and allow him to move to the Texas Research Foundation. On 3 December 1959, Correll acknowledged a letter from Johnston inquiring about the possibility of obtaining a position and told him that he had discussed this with Lundell. Clearly, Lundell and Correll considered Johnston's inquiry seriously, and they acted to expedite his move to Renner. Correll traveled to Washington, D.C., to meet with David Keck, who was program director for systematic biology at the National Science Foundation office from 1958 to 1970 (Ewan, 1996), and early in 1960 Johnston and Correll exchanged a great deal of correspondence as their proposal was prepared for submission for the 15 May 1960 NSF deadline.

Ivan Johnston died suddenly and unexpectedly of a heart attack at the age of 62 in his home on the Arnold Arboretum grounds on 31 May 1960. His move to the Texas Research Foundation never materialized, and although he had intended to donate his personal library, it appears that this never came about. In Correll's letter to him on 10 May 1960, just 11 days before his death he stated, "Your

offer to deposit your botanical library here at the Foundation is most generous and we are most grateful to you. When you are ready to move, just have a packer come in and box up the books, separates, presses and driers and have them shipped to Renner either by van or express. The Foundation, as you know, will be more than willing to pay all the costs of packing, shipping, and any other expenses that might be incurred. If you have herbarium material which you would like to include in the shipment, by all means please do so. Where is your personal borage herbarium?" Unfortunately, Johnston died before he finished attending to the disposition of his correspondence, field books, and other parts of his personal library. Correll later wrote to Lundell, "Recently I attended the funeral of Dr. Ivan M. Johnston in Boston, Mass. Dr. Johnston, who was to join our staff in September, died suddenly of a heart attack on May 31. While in Boston, I met with Mrs. Johnston and arranged to purchase Dr. Johnston's private science library and some of his scientific equipment." His memo, dated 17 June 1960, indicates that the Foundation had agreed to pay $975.00 for Johnston's materials.

It appears that the bulk of Johnston's materials never made it to Texas. The Texas Research Foundation was dissolved in 1972, and the botanical library was deposited at the University of Texas, Austin (Turner, 1973). Lundell spent his later years at the University of Texas at Dallas. Apart from a few of Johnston's letters deposited in the Harry Ransom Humanities Research Center at the University of Texas at Austin, none of his materials seem to have become part of any of these collections. The final disposition of his field books remains a mystery, and on 6 October 1969 Richard Howard wrote from Harvard to Correll, confirming a similar response earlier from Harvard botanist Reed Rollins, that "At the time of Ivan's death he was spending most of his time at home or elsewhere and had about cleared his office. The residue was returned to Mrs. Johnston and I assumed you got it in the lot you purchased. We have a few lists of plants and determinations but nothing that could be called field books. I suspect you will find them in your acquisitions eventually."

The final disposition of Johnston's field books, the bulk of his correspondence, and other parts of his personal library remains a mystery. As Correll's letter instructing him to have his personal library shipped was dated only 11 days before his death, and Richard Howard's letter in 1969 indicates that Johnston had largely vacated his office by then, it seems most likely that Johnston's materials were all in his home, with his family, at the time of his death. Given his strained relationship with the other staff at Harvard, it seems unlikely that any effort was made by Harvard staff to intervene with his family, and as the material is absent from all of the collections in Texas, it probably never made it there. The most likely explanation is that Johnston's field books and library remained with his family.

While his field books are unavailable, the published literature indicates that Johnston maintained several distinct number series. His collections of marine algae from Baja California (Table 1) were clearly a different series than the vascular plants he collected in California and adjacent Mexico. Specimens that he cited for new species published from his Peruvian collections made in 1925 (Johnston, 1928a) include numbers within the same range used for his collections from Baja California in 1921. His main number series for vascular plants ran into the nine thousands, but he apparently resumed under a different series when he was collecting in Panama in 1944 and 1945. He also appears to have started a different number series for vascular plants collected with C. H. Müller in Mexico.

As mentioned earlier, Johnston's interests were broad, and during his career he published 106 articles, and two checklists of the Boraginaceae in Gould's (1962, 1969) catalog of the Flora of Texas (Appendix 1). Johnston's first four publications (Johnston, 1918a, 1918b, 1919a, 1919b) were all on some aspect of southern Californian botany, and he also published the results of his summer studies in 1921 on the California Academy of Sciences expedition to the Gulf of California (Johnston, 1922, 1924c). In 1922, he began a series of publications with his undergraduate mentor, Phillip Munz, that resulted in eight publications over four years, summarizing their studies of the ferns and flowering plants of southern California (Munz & Johnston, 1922a, 1922b, 1922c, 1923, 1924a, 1924b, 1925a, 1925b).

Beginning from his interest in plants of arid southern California, deserts continued to be one of Johnston's major interests throughout his life. Following his trip to Chile in 1925 and 1926, he published extensively on the plants of dry regions of Chile and Argentina (Johnston, 1926, 1929a, 1929b, 1929c, 1930b, 1931b, 1932, 1938b). His affection for desert plants is evidenced by his own personal bound volume entitled "Papers on Northern Mexico," presently in the Botany Libraries of Harvard University, which is a collection of his publications on desert floras including a comparison of North and South American deserts (Johnston, 1940c), a discussion of the unique floras of gypsophilous areas of Mexico (Johnston, 1941a), and three series of papers on Mexican plants: *New Phanerogams From Mexico I–V* (Johnston, 1939a, 1940a, 1940b, 1941b, 1943a), *Noteworthy Species From Mexico and Adjacent United States I–III* (Johnston, 1943b, 1948a, 1950b), and *Plants of Coahuila, Eastern Chihuahua, and Adjoining Zacatecas and Durango I–V)* (Johnston, 1943d, 1943e, 1944a, 1944b, 1944c). Johnston's personal volume had all of these papers bound together, and he continued to annotate them as he received new collections and distributional records, and updated taxonomy.

In addition to his general interest in desert floras, Johnston was truly an authority on floristics in general, particularly of Latin America. He conducted fieldwork in Argentina, Chile, Mexico, Panama, and Peru. He received large groups of specimens sent to him by field botanists in many countries, and he described the new species in many families. Some of these were significant enough to warrant their own publications, such as the collections of A. G. Curtis in Angola (1924b, 1925b) and others, such as F. E. Hinkley's Peruvian collections, were included in papers that were essentially compilations of new species he had discovered in the herbarium. From the 1920s through the 1940s the richest parts of South America, which had only been scratched by botanical explorers prior to this time, were being scoured by Bang and Steinback in Bolivia, J. Francis Macbride in Peru, Hitchcock in Ecuador, E. P. Killip and H. H. Smith in Colombia, and Johnston received duplicates of their specimens. He published on taxa in many families, but made extensive contributions to *Astragalus* L. (Johnston, 1938a), *Cercidium* Tul. (Johnston, 1924a, 1924c), *Fuchsia* L. (Johnston, 1939b), *Sisyrinchium* L. (Johnston, 1938c), and Nolanaceae (Johnston, 1936a) in addition to his work on Boraginaceae.

Johnston also published occasionally on the history of botany. As he uncovered data and information about collectors that he felt to be of utility, he published notes on their activities. This included accounts of the activities of Thomas Bridges (Johnston, 1928b), the names published by Molina (Johnston, 1924a) and Sessé and Mociño (Johnston, 1949a), and bibliographic information concerning the Pacific railroad reports (Johnston, 1943c), Gay's *Flora de Chile* (Johnston, 1941e), and Gaudichaud (Johnston, 1944d). However, while Johnston realized the importance of the study and publication of this sort of information, he viewed it as secondary to the true advancement of taxonomic research. In 1933, he wrote to J. Ewan, who had asked for Johnston's opinion on a bibliography of South American botany that he had begun, "I am very interested to learn that books appeal to you and that you have poked over the library shelves. There is nothing I like to do more myself and so, because of it all, I feel every one should know the botanical literature as well or better than I do. Alas most botanists do not! Hence from this prejudiced view point I am delighted in your projected bibliography. On the other hand I must say I would be careful not to get involved in a huge compilation which could be done just as well by an untrained non-botanical person." He later continued more strongly with "Let other people who are compilers and not botanists play with titles. Put your main efforts into research (backed with a good knowledge of related literature) and be responsible for papers you can be proud of as really contributing to the subject discussed and as making all previously written on the subject out of date."

IVAN M. JOHNSTON'S PUBLICATIONS ON BORAGINACEAE

While Johnston published on a wide variety of subjects, the major focus of his work was clearly Boraginaceae. He described more than 200 new taxa in Boraginaceae and also published numerous new combinations. As Boraginaceae are considered to consist of 131 genera and 2000 species (Brummit, 1992), Johnston probably provided names for about 10% of currently accepted species in the family. He also published 13 new genera in the family (Table 3). Forty-two of Johnston's 108 publications, plus two posthumous contributions, are devoted entirely to Boraginaceae (Correll, 1961; Appendix 1). Thirty-one of these comprise the series "Studies in the Boraginaceae," which appeared in four journals over 38 years, and cumulatively these comprise the greatest contribution to knowledge of the taxonomy of Boraginaceae ever published. The remaining 11 publications are mainly treatments of Boraginaceae for regional floras (Johnston, 1936b, 1942, 1948b, 1953b, 1953c, 1957, 1962, 1969); a single species of *Onosma* L. was described in *Candollea* (Johnston, 1931a), and *Heliotropium piurense* I. M. Johnst. was described in a separate article in the *American Journal of Botany* (Johnston, 1946).

Table 3. New genera described by Ivan Johnston.

Genus	Family
Amblynotis	Boraginaceae
Antrophora	Boraginaceae
Chionocharis	Boraginaceae
Dasynotus	Boraginaceae
Gnestidium	Fabaceae
Lasiarrhenum	Boraginaceae
Mairetis	Boraginaceae
Mastigostyla	Iridaceae
Microcaryum	Boraginaceae
Moltkiopsis	Boraginaceae
Nesocaryum	Boraginaceae
Nomosa	Boraginaceae
Oreogenia	Boraginaceae
Perittostema	Boraginaceae
Petrogenia	Convolvulaceae
Psilolaemus	Boraginaceae

However, while Johnston's broad knowledge of Boraginaceae has never been equaled, his work on the family was not at all even and reflected where his love for the taxonomy of the family intersected with his other interests. Thus, he published much more extensively on taxa that occurred in the American West, deserts of Mexico and South America, and other areas of Latin America than any of the Old World taxa. The number of names that he treated in the 12 largest genera, which cumulatively comprise more than half of the family, is not always reflective of the size of the genera (Table 4). Nevertheless, his broad knowledge of the family led to major revisions that were widely respected by both his American, European (Correll, 1961), and Latin American colleagues (Ferreyra, 1960; Looser, 1961).

Munz (1961) wrote that Johnston had an "instinctive feeling or sense for plant taxonomy" and "in the field or herbarium he saw a plant as a plant: its color, habit, vesture, shape of individual organs, all as a whole, as one image. He felt it as a unit and could compare it as such with other individual plants

in such a way as to recognize it as something apart and with its own characters." He combined this innate feel for plants with a keen sense of geography, geology, and climatology, all subjects he pursued vigorously, to achieve remarkable insight into plant groups that were previously very poorly understood. Even though Johnston knew 8 of the 12 species of *Cordia* sect. *Gerascanthus* (P. Browne) Don from Mexico and Central America from three or fewer collections, his treatment of the species (Johnston, 1950a) has proven remarkably robust and differs little from more recent treatments (Miller, 1986).

Johnston set high standards for himself, and he expected the same of others. He was often brutally honest in print regarding his opinion of the works of others as when he described Rydberg's classification of the South American species of *Astragalus* as "artificial at many places and furthermore is to be condemned as provincial, since it is based almost exclusively on species of one region and without full consideration of those in other parts of the world" (Johnston, 1947). He also attacked those who suggested realignments in the classification of *Cordia* L., commenting on the study by Mez (1890) based heavily on wood anatomy, "Unfortified by a microtome I am quite unable to justify such groups as Mez has treated as *Myxae*, *Strigosae*, *Pilicordia*, and *Crassifoliae*. They seem to be quite heterogeneous and incapable of definition by those characters of habit, leaves, flowers and fruit that are, not only readily examined, but have been tested and are known to have phylogenetic significance" (Johnston, 1930a: 7). He was even more caustic about the treatment in Engler and Prantl's *Die natürlichen Pflanzenfamilien* (Gürke, 1893), which he dismissed as "the sketchy hack compilation of Gürke" (Johnston, 1930a: 3).

Table 4. Genera of Boraginaceae with 50 or more species and the number of names treated in Johnston's Studies.

	Number of Species	Names in Studies
Cordia	325[1]	516
Heliotropium	250[2]	385
Onosma	150[3]	77
Tournefortia	150[3]	225
Cryptantha	100[3]	326
Lithospermum	59[3]	231
Cynoglossum	55[3]	61
Bourreria	50[3]	16
Ehretia	50[3]	74
Mertensia	50[3]	63
Plagiobothrys	50[3]	145[4]
Trigonotis	50[3]	48

[1]Estimated by authors. [2]Frohlich. [3]Brummitt (1992). [4]Does not include names in *Allocarya*.

Johnston was also an extraordinarily careful student of nomenclature for his time. His extensive study of European type specimens in the early 1930s and his careful application of the rules of nomenclature, as they existed at the time, always resulted in taxonomic studies that were well documented with careful nomenclatural work. In 1925, he was not only indicating types for all names he published, not required by the international Code until 1958, but also clearly distinguishing between holotypes and isotypes and even giving specimen accession numbers for holotypes when possible.

INDEX TO THE "STUDIES IN THE BORAGINACEAE"

The following index to Johnston's "Studies in the Boraginaceae" lists citations for each botanical name that appears in the 31 articles that comprise the series. Each name that appears is provided with a citation in the index that gives the number of the "Studies in the Boraginaceae" in which it appears followed by the page number from the journal where the name appeared. Thus, the citation XV: 341 for *Cordia johnstonii* Cufod. would indicate that the name appears on page 341 of volume 21 of the *Journal of the Arnold Arboretum*, in which Studies in the Boraginaceae XV was published. An index to the 31 articles of the "Studies in the Boraginaceae" is provided on the inside of the covers of this volume.

A citation for every scientific name from the Boraginaceae that appears in the series is provided except for the family name, Boraginacaeae, itself. While in general a name is indexed as appearing only on the pages on which it actually appears, for some articles that focus on a particular genus or other taxon above the species level, a range of page numbers may be given that conforms to subject matter rather than actual pages upon which the name is printed. Thus, the genus *Heliotropium* L. is indexed for all pages of the first part of "Studies in the Boraginaceae VII. 1. The South American species of *Heliotropium*," rather than providing a long list of the majority of pages where the name actually appears. "Studies in the Boraginaceae IX," the only article of the series published in *Contributions from the Arnold Arboretum*, appeared with an index. All names that appear in the actual article are included in this index, but the index pages are not.

The following index differs from Hilger and Zippel (2001) in several ways. Their index spanned all of Johnston's publications and covered more than his series "Studies in the Boraginaceae," so the two indices are to similar but not identical publications. But most significantly, Hilger and Zippel's work is an index to species and they have made taxonomic judgments, indexing under currently accepted names. The present index is an index to names, not species, and makes no effort to solve taxonomic questions. It is intended as a tool for those who will be trying to do so.

In addition, names of taxa other than Boraginaceae that are only mentioned incidentally are not indexed. For example, in "Studies in the Boraginaceae XIV. Miscellaneous Species from Asia, Malaysia, and America," Johnston included the following paragraph:

> "According to Mr. Hoover, *Cryptantha crymophila* grows in loose rocks about the summit of Red Peak (about 9950 ft.) down to about 9500 ft. altitude. Associated species include *Lupinus meionanthus*, *Senecio canus*, and *Erigeron compositus*. Red Peak is composed of dark, fine-grained rock said to be of volcanic origin. Some scattered shrubs of *Pinus albicaulis* grow up to the very summit. Mr. Hoover writes me that he collected the present species on the adjacent Bald Peak in 1936. The material, however, was in early flowering condition."

The only scientific name from Boraginacaeae in this paragraph that would be included in the index is *Cryptantha crymophila* I. M. Johnst.; *Lupinus meionanthus*, *Senecio canus*, *Erigeron compositus*, and *Pinus albicaulis*, each of which is only mentioned as occurring in the same habitat, are not included in the index. On the other hand, *Cornutia cymosa* (16: 346), while potentially perceived as a member of the Verbenaceae, is the basionym for *Cordia cymosa* (Donn.Sm.) Standl. and is therefore directly relevant to the systematics of the Boraginacaeae, so it is included. *Cornus sanguinaria* Forssk., included in the synonymy of *Cordia gharaf* (Forssk.) Ehrenb. ex Asch., is listed in the index and so is *Cornus sanguinaria* L., its earlier homonym excluded from the Boraginaceae.

Scientific names of plants are generally indexed exactly as they appeared in Johnston's publications with only the following exceptions. Minor orthographic variants have been corrected to conform to the most generally accepted usage. Thus *Lobostemon alpecuruoideus*, which appeared without an authority, is assumed to be *Lobostemon alopecuroideus* C. H. Wright and is so corrected in the index.

Also, commemorative epithets, which Johnston generally capitalized, are spelled in lowercase letters following article 60.2 and recommendation 60F of the *International Code of Botanical Nomenclature* (Greuter et al., 2000).

Standard author abbreviations have been modified to conform with Brummitt and Powell (1992). As Johnston's articles all predated the publications that currently index standard author abbreviations, his abbreviations for author names varied widely and frequently required checking original literature to confirm original authors. Various members of the de Candolle family were responsible for the publication of many names in the Boraginaceae and, as Johnston was frequently imprecise indicating authorship of those names, they have all been confirmed against original publications and standardized to conform with Brummit and Powell (1992). In addition, Johnston often listed subgeneric, sectional, and subsectional names without authors, and these have been added for convenience by checking original publication of the names. *Ehretia* sect. *Bourrerioides*, which appears without authority, is assumed to be *Ehretia* sect. *Bourreria* DC., rather than a new name published by Johnston.

There remain scattered throughout the "Studies in the Boraginaceae," however, some names that seem to have never been published and for which authors cannot be located. These have been included unless Johnston provided some indication that they were not published names. Thus *Lithospermum hookeri*, *Macrotomia hookeri*, and *Nonnea alpestris* appear in the index without authority names. They appear this way in Johnston's publications and appear to be unpublished. It is not clear whether they were merely unpublished combinations that Johnston had planned to make later. However, several names that appear in "Studies in the Boraginaceae XVII. 2. The identity of species by Sessé and Mociño" are clearly indicated as names that merely appeared on specimens in their herbarium. As these have no taxonomic validity, they are not included in the index unless they were published elsewhere.

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_____. 1944b. Plants of Coahuila, eastern Chihuahua, and adjoining Zacatecas and Durango, V. J. Arnold Arbor. 25: 133–182. (Published out of sequence before part IV.)
_____. 1944c. Plants of Coahuila, eastern Chihuahua, and adjoining Zacatecas and Durango, IV. J. Arnold Arbor. 25: 431–453.
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A CATALOG OF THE CORRESPONDENCE OF IVAN M. JOHNSTON

10 Nov. 1919 – from Adele Grant
(MO – Ewan) – 22 Nov. 1919 – to Miss Grant
17 June 1931 – from Mr. H. H. Hu
(A) 16 July 1931 – to Mr. H. H. Hu, Peiping, China
(A) 3 June 1932 – to Major H. Crampton Jones, Cambridge, MA
(A) 19 Dec. 1932 – to Miss Anderson, Cambridge, MA (from London)
(A) 18 Apr. 1933 – to Miss Anderson, Cambridge, MA (from Berlin)
(MO – Ewan) 15 May 1933 – from Joseph Ewan
(A) 6 July 1933 – to Miss Anderson, Cambridge, MA (from Berlin)
(A) 14 Sep. 1933 – to Miss Anderson, Cambridge, MA (from Paris)
(MO – Ewan) 16 Sep. 1933 – to Ewan
(A) 19 Sep. 1933 – to Mr. Norman Davis, Paris
(A) 20 Sep. 1933 – to Prof. Ames, Cambridge, MA (from Paris)
(A) 10 Oct. 1933 – to Miss Anderson, Cambridge, MA (from London)
(MO – Ewan) 14 Nov. 1933 – from Joseph Ewan
(MO – Ewan) – 27 Nov. 1933 – to Mr. Ewan
(TEX) 1 Dec. 1933 – to Mr. Lundell
(MO – Ewan) – 31 Dec. 1933 – from Joseph Ewan
(A) 4 Aug. 1934 – to Miss Anderson, Cambridge, MA (from Long Island)
(A) 12 Aug. 1934 – to Prof. Ames, Cambridge, MA (from Soledad, Cuba)
(TEX) 5 Nov. 1934 – to Dr. Lundell
(MO) 27 Nov. 1934 – Dr. Prof. Greenman
(MO – Ewan) – 24 Sep. 1935 – from Joseph Ewan
(MO – Ewan) – 30 Sep. 1935 – to Ewan
(MO – Ewan) – 15 Oct. 1935 – from Joseph Ewan
(MO – Ewan) – 6 Nov. 1935 – to Ewan
(MO – Ewan) – 5 Feb. 1936 – from Joseph Ewan
(MO – Ewan) – 11 Feb. 1936 – to Ewan
(MO – Ewan) – 4 Mar. 1936 – to Ewan
(MO – Ewan) – 8 Oct. 1936 – from Joseph Ewan
(MO – Ewan) – 15 Feb. 1937 – to Ewan
(MO – Ewan) – 27 Dec. 1937 – to Ewan
(A) 22 Jan. 1938 – to Dr. Thompson
(A) 31 Aug. 1938 – to Dr. Merrill (from Saltillo)
(A) 6 Sep. 1938 – to Prof. Merrill (from Zacatecas)
(MO – Ewan) – 17 Jan. 1939 – from Joseph Ewan
(MO – Ewan) – 24 Jan. 1939 – to Ewan
9 May 1939 – from Dr. Benson
(MO – Ewan) – 7 Oct. 1939 – from Joseph Ewan
(A) 5 Feb. 1940 – to Dr. Benson
(TEX) 5 Apr. 1940 – to Dr. Lundell
(TEX) 25 Apr. 1940 – from C. L. Lundell
(MO – Ewan) – 14 Nov. 1940 – from Jospeh Ewan
(TEX) 17 Dec. 1940 – to Dr. Lundell
(TEX) 24 Dec. 1940 – from C. L. Lundell
(TEX) 15 June 1941 – to Dr. Lundell
(TEX) 16 June 1941 – from C. L. Lundell
(TEX) 18 June 1941 – to Dr. Lundell
(TEX) 2 July 1941 – from C. L. Lundell
(A) 15 Aug. 1941 – to Prof. Merrill (from Santa Elena, Coahuila)
(A) 29 Aug. 1941 – from Prof. Merrill
(A) 18 Sep. 1941 – to Prof. Merrill (from Ocampo, Coahuila)

(A) 1 Oct. 1941 – to Prof. Merrill (from Esmeralda, Coahuila)
(A) 15 Jan. 1942 – to Mr. Stanford
(A) 11 Mar. 1942 – to Dr. B. Y. Morrison
21 Mar. 1942 – from Mr. Retherford
25 Mar. 1942 – from Mr. White
(A) 29 Mar. 1942 – to Mr. Retherford
(A) 29 Mar. 1942 – to Mr. White
(TEX) 23 June 1942 – from C. L. Lundell
(TEX) 29 Aug. 1942 – to Dr. Lundell
(TEX) 2 Oct. 1942 – from C. L. Lundell
4 Nov. 1942 – from Mr. Waterfall
23 Nov. 1942 – from Mr. Waterfall
25 Nov. 1942 – from Mr. Waterfall
(A) 1 Dec. 1942 – to Mr. Waterfall
29 Dec. 1942 – from Waterfall
(A) 10 Jan. 1943 – to Waterfall
(A) 20 Jan. 1943 – to Mr. Waterfall
5 Feb. 1943 – from Waterfall
(A) 15 Feb. 1943 – to Mr. Waterfall
(A) 1 May 1943 – Suggestions for fieldwork in trans-Pecos, Texas (marked as having been sent with letter of May 1)
11 June 1943 – from Waterfall
(A) 15 June 1943 – to Mr. Waterfall
(A) 22 Sep. 1943 – to Waterfall
12 Oct. 1943 – from Waterfall
31 Oct. 1943 – from Waterfall
(A) 15 Nov. 1943 – to McVaugh
11 Mar. 1944 – from Waterfall
(A) 15 Mar. 1944 – to Miss Anne S. Pratt
(A) 24 Apr. 1944 – to Waterfall
3 May 1944 – from Waterfall
(A) 8 May 1944 – to Waterfall
(A) 16 May 1944 – to Waterfall
(A) 24 Oct. 1944 – to Dr. Merrill (c/o Post Master, New Orleans, although this letter seems to have been written from Panama)
(A) 1 Feb. 1945 – to Waterfall
16 Sep. 1945 – from Waterfall
(A) 13 Oct. 1945 – to Dr. Merrill
(A) 14 Oct. 1945 – to Waterfall
(A) 12 Aug. 1946 – to Waterfall
21 Oct. 1946 – from Dr. M. K. Elias
(A) 1 Nov. 1946 – to Dr. Elias
(A) 14 May 1947 – to Mr. H. H. Chung
(A) 9 Sep. 1947 – to Professor Chiao
(MO – Ewan) – 21 Feb. 1948 – from Joseph Ewan
(MO – Ewan) – 9 Mar. 1948 – to Dr. Ewan
(A) 19 Mar. 1948 – to Mr. Wu
(A) 31 Mar. 1948 – to Walker
2 Apr. 1948 – from Dr. E. R. Walker
(A) 6 Apr. 1948 – to Walker
20 Apr. 1948 – from Miss Ching-Yung Cheng
(A) 24 Apr. 1948 – to Miss Cheng
(MO – Ewan) – 23 July 1948 – from Joseph Ewan
(MO – Ewan) – 4 Aug. 1948 – to Dr. Ewan
(MO – Ewan) – 23 Aug. 1948 – to Dr. Ewan
13 May 1949 – from Professor Martinez
(A) 22 June 1949 – to Professor Martinez
(A) 2 Nov. 1949 – to Mr. Anderson
11 Apr. 1950 – from Joseph Ewan
(A) 14 Apr. 1950 – memo from Merrill
(MO – Ewan) – 16 May 1950 – to Dr. Ewan
(MO – Ewan) – 2 June 1950 – from Joseph Ewan
3 Nov. 1950 – from Reverend B. Rambo, S. J.
(A) 4 Jan. 1951 – to Father Rambo
(MO – Ewan) – 14 Mar. 1951 – from Joseph Ewan
(A) 12 Aug. 1952 – to Dr. Fukarek
20 Oct. 1953 – from Mr. Rafael Romero Casteada
(A) 2 Dec. 1952 – to Mr. Guichard
(A) 8 Jan. 1953 – to Dr. Fukarek
(A) 14 Jan. 1953 – to Dr. Elias
(A) 5 Mar. 1953 – to Dr. Fukarek
(A) 5 Mar. 1953 – to Mr. Romero
24 Apr. 1953 – from Mr. Glen S. Winterringer
16 May 1953 – from Mr. Kenneth M. Guichard
(A) 25 May 1953 – to Mr. Guichard
(A) 12 June 1953 – to Mr. Witerringer
(A) 31 July 1953 – to Lyman
(A) 28 Sep. 1953 – to Taylor
(A) 23 Nov. 1953 – to Mrs. Woodhouse
(A) 25 Nov. 1953 – to Mr. Jessup
29 Jan. 1954 – from Mr. R. N. Parker
17 Feb. 1954 – from Mr. Jose Santos Biloni
6 Mar. 1954 – from Professor Barton H. Warnock
(A) 9 Mar. 1954 – to McVaugh
(A) 17 Mar. 1954 – to Dr. Warnock
24 Mar. 1954 – from McVaugh

27 Mar. 1954 – from Dr. George Taylor
(A) 30 Mar. 1954 – to Mr. Parker
(A) 30 Mar. 1954 – to Mr. Santos
7 Apr. 1954 – from Dr. Sidney F. Blake
(A) 22 Apr. 1954 – to Taylor
(A) 23 Apr. 1954 – to McVaugh
(A) 23 Apr. 1954 – to Blake
7 May 1954 – from Mr. Chester M. Rowell, Jr.
8 June 1954 – from Mr. W. Andrew Archer
(A) 15 Sep. 1954 – to Gentry
(A) 20 Sep. 1954 – to Mr. Rowell
(A) 23 Sep. 1954 – to Mr. Jaeger
(A) 23 Sep. 1954 – to Mr. Archer
(A) 12 Nov. 1954 – to Professor Rzedowski
(TEX – Turner) 15 Dec. 1954 – to Dr. Howard
21 Dec. 1954 – from Dr. Howard
(TEX – Turner) 28 Dec. 1954 – to Dr. Howard
(TEX – Turner) 5 Jan. 1955 – to Dr. Howard
5 Aug. 1955 – from Phillip Munz
(A) 22 Aug. 1955 – to Munz
29 Sep. 1955 – from Dr. Adrian Ruiz Leal
(TEX – Turner) 11 Oct. 1955 – to Dean Bundy
7 Nov. 1955 – from Mr. C. Frankton
(A) 31 Dec. 1955 – to Dr. Ruiz Leal
4 Jan. 1956 – from Mr. John Thomas Howell
(A) 6 Jan. 1956 – to Mr. Frankton
21 Mar. 1956 – Professor William A. Weber
(TEX – Turner) 10 May 1956 – from Dr. H. C. Solomon to Dean McGeorge Bundy
(A) 29 Aug. 1956 – to Dr. Dwyer
(A) 19 Jan. 1957 – to Dr. Lawrence
(A) 19 Jan. 1957 – to McVaugh
(A) 29 Jan. 1957 – to Woodson
(TEX) 7 Feb. 1957 – from Donovan S. Correll
19 Apr. 1957 – from Luther ?
23 May 1957 – from Dr. A. H. Mohajir
(A) 26 May 1957 – to Mr. Tonkin
(A) 10 June 1957 – to Luther
(A) 19 Aug. 1957 – to Dr. Tryon
23 Aug. 1957 – from Mr. Ernest J. Palmer
13 Sep. 1957 – from Dr. Earl P. Stephens
(A) 15 Sep. 1957 – to Dr. Weber
15 Sep. 1957 – from Phillip Munz
(A) 18 Sep. 1957 – to Mr. Palmer
(A) 18 Sep. 1957 – to Howell
(TEX) 18 Sep. 1957 – to Dr. C. L. Lundell
24 Sep. 1957 – from Dr. Carl Wolf
(A) 2 Oct. 1957 – to Munz
(A) 2 Oct. 1957 – to Mr. Little
(A) 3 Oct. 1957 – to Woodson
(A) 10 Oct. 1957 – to Dr. Mohajir
(A) 15 Oct. 1957 – to Dr. Stephens
(A) 18 Oct. 1957 – to Dr. Ruiz-Leal
(A) 29 Oct. 1957 – to Knobloch
(A) 29 Oct. 1957 – to Mr. Chisaki
(A) 30 Oct. 1957 – to Mr. Shama
(A) 30 Oct. 1957 – to Wolf
(TEX) 14 Nov. 1957 – from C. L. Lundell
21 Nov. 1957 – from Dr. W. Andrew Archer
11 Dec. 1957 – from Mr. J. E. Dandy
30 Dec. 1957 – from Waterfall
(A) 10 Jan. 1958 – to Dr. Waterfall
(A) 13 Jan. 1958 – to Sir (Dr. L. Lechner-Pock)
(A) 13 Jan. 1958 – to Munz
(A) 13 Jan. 1958 – to Dr. Mirov
(A) 13 Jan. 1958 – to Dandy
(A) 17 Jan. 1958 – to McVaugh
27 Jan. 1958 – from Professor L. H. Heckard
9 Feb. 1958 – from Professor George J. Goodman
11 Feb. 1958 – from Professor George J. Goodman
19 Feb. 1958 – from Dr. Leopold A. Charette
25 Feb. 1958 – from Dr. Warnock
(A) 26 Feb. 1958 – to Dr. Goodman
(A) 26 Feb. 1958 – to Dr. Heckard
(A) 26 Feb. 1958 – to Dr. Charette
(A) 26 Feb. 1958 – to Dr. Archer
4 Mar. 1958 – from Rogers McVaugh (with form questionnaire)
(A) 4 Mar. 1958 – to Dr. Warnock
5 Mar. 1958 – from Professor James P. Poole
5 Mar. 1958 – postcard from Mrs. Lore Lechner-Pock
9 Mar. 1958 – from Sr. Gualterio Looser
(A) 11 Mar. 1958 – to McVaugh
(A) 12 Mar. 1958 – to Dr. Poole
14 Mar. 1958 – from Ida Langman
(A) 24 Mar. 1958 – to Barneby
(A) 25 Mar. 1958 – to Mrs. Lechner-Pock
(A) 26 Mar. 1958 – to Mr. Looser
(MO – Ewan) 26 Mar. 1958 – to Miss Langman
(A) 27 Mar. 1958 – to McVaugh
(A) 27 Mar. 1958 – to Dr. Kenoyer
27 Mar. 1958 – from Dr. Reid Moran
28 Mar. 1958 – from Mr. Walter Yust

31 Mar. 1958 – from Professor Poole
(A) 1 Apr. 1958 – to Dr. Tryon
(A) 1 Apr. 1958 – to Dr. Moran
(A) 1 Apr. 1958 – to Dr. Howell
(A) 1 Apr. 1958 – to Mr. Yust
(A) 2 Apr. 1958 – to Professor Poole
(A) 4 Apr. 1958 – from John V. Dodge, *Encyclopedia Britannica*
26 Apr. 1958 – from Professor Irving Knobloch
(A) 5 May 1958 – to Knobloch
7 May 1958 – from St. Gualterio Looser
9 May 1958 – from Dr. John Ingram
(A) 15 May 1958 – to Sr. Ruiz
(A) 15 May 1958 – to Dr. Ingram
16 May 1958 – from Dr. F. G. Meyer
(A) 20 May 1958 – to Knobloch
(A) 4 June 1958 – to Mr. Looser
(A) 4 June 1958 – to Dr. Meyer
5 June 1958 – from Rogers McVaugh
(A) 12 June 1958 – to McVaugh
(A) 15 June 1958 – to Dr. Yust
26 June 1958 – from Mr. John V. Dodge
10 July 1958 – from Professor Albert N. Stewart
(A) 18 Aug. 1958 – to Mr. Dodge
2 Sep. 1958 – from Ida Langman
4 Sep. 1958 – from Dr. Reid Moran
(TEX) 19 Sep. 1958 – from Donovan S. Correll
(MO – Ewan) 22 Sep. 1958 – to Dr. Langman
(A) 29 Sep. 1958 – to Mr. Hunnewell
(A) 29 Sep. 1958 – to Mr. Buddington
(TEX) 30 Sep. 1958 – from Donovon S. Correll
1 Oct. 1958 – from Dr. Earle Smith, Jr.
3 Oct. 1958 – from Mr. Roger Buddington
(A) 7 Oct. 1958 – to Smitty
(A) 9 Oct. 1958 – to Gentlemen
(A) 10 Oct. 1958 – to Mr. Buddington
(A) 14 Oct. 1958 – to Dr. Stewart
(A) 14 Oct. 1958 – to Hitchy (Leo Hitchcock)
17 Oct. 1958 – to Correll
(TEX – Turner) 17 Oct. 1958 – to Dr. Turner
20 Oct. 1958 – from Dr. Earle Smith, Jr.
(TEX) 20 Oct. 1958 – from Donovan S. Correll
(TEX – Turner) 20 Oct. 1958 – from B. L. Turner
(TEX) 28 Oct. 1958 – from Donovan S. Correll
(TEX) 1 Nov. 1958 – from Donovan S. Correll
(A) 7 Nov. 1958 – to Smitty
(A) 7 Nov. 1958 – to Hitchy
7 Nov. 1958 – from Professor Irving Knobloch
(A) 10 Nov. 1958 – to Dr. Moran
(A) 10 Nov. 1958 – to Knobloch
(A) 10 Nov. 1958 – to Woodson
13 Nov. 1958 – from Dr. B. L. Turner
20 Nov. 1958 – to Correll
(A) 21 Nov. 1958 – to Dr. Turner
(A) 21 Nov. 1958 – to Smitty
(A) 21 Nov. 1958 – to Dr. Wahl
25 Nov. 1958 – from Dr. W. E. Grabau
(TEX) 25 Nov. 1958 – from Donovan S. Correll
(MO) 1 Dec. 1958 – from Robert E. Woodson, Jr.
(MO) 15 Dec. 1958 – to Woodson
(A) 15 Dec. 1958 – to Dr. Grabau
15 Dec. 1996 – to Correll
(A) 16 Dec. 1958 – to Professor Rzedowski
(TEX) 18 Dec. 1958 – from Donovan S. Correll
16 Jan. 1959 – from Robert E. Woodson
24 Jan. 1959 – from Professor Jayme Coelho de Moraes
27 Jan. 1959 – from Woodson
(A) 3 Feb. 1959 – to Woodson
(A) 20 Feb. 1959 – to Munz
(A) 25 Feb. 1959 – to Dr. Waterfall
24 Mar. 1959 – from McVaugh
(TEX) 14 Apr. 1959 – from Donovan S. Correll
(A) 17 Apr. 1959 – to Shinners
15 Apr. 1959 – from McVaugh
(A) 17 Apr. 1959 – to McVaugh
23 Apr. 1959 – to McVaugh
(A) 8 May 1959 – from Ruiz Leal
27 May 1959 – from Professor G. F. Ledingham
(A) 16 June 1959 – to Milstead
18 June 1959 – from Julian Steyermark
(A) 22 June 1959 – to Dr. Velasco
(A) 22 June 1959 – to Dr. Ledingham
(TEX) 24 June 1959 – from Donovan S. Correll
(TEX) 20 July 1959 – from Donovan S. Correll
3 Aug. 1959 – from Professor Jayme Coelho de Moraes
(A) 24 Aug. 1959 – to Julian
(A) 24 Aug. 1959 – to Dr. Ruiz Leal
(A) 24 Aug. 1959 – to Sir (Professor Jayme Coelho de Moraes)
18 Sep. 1959 – from Dr. Reid Moran
6 Oct. 1959 – from Professor J. Lanjouw
19 Oct. 1959 – from Mr. Robert Ornduff
20 Oct. 1959 – from Mr. Bradford Washburn

(A) 22 Oct. 1959 – to Mr. Washburn
(A) 23 Oct. 1959 – to Dr. Moran
(A) 30 Oct. 1959 – to Mr. Ornduff
(A) 30 Oct. 1959 – to Dr. Lanjouw
(TEX) 12 Nov. 1959 – from D. S. Correll
1 Dec. 1959 – to Correll
(TEX) 3 Dec. 1959 – from Donovan S. Correll
(TEX) 9 Dec. 1959 – from Donovan S. Correll
(A) 10 Dec. 1959 – to Dr. Leonard
15 Dec. 1960 – from Professor A. B. Leonard
(TEX) 18 Dec. 1959 – from Donovan S. Correll
4 Jan. 1960 – from Dr. Louis O. Williams
8 Jan. 1960 – from Donovan S. Correll
(TEX) 12 Jan. 1960 – from Donovan S. Correll
12 Jan. 1960 – from Dr. James A. Calder
(TEX) 29 Jan. 1960 – from Donovan S. Correll
(A) 3 Feb. 1960 – to Williams
4 Feb. 1960 – from Dr. Frank W. Gould
(A) 8 Feb. 1960 – to Dr. Calder
(A) 9 Feb. 1960 – to Dr. Reitz
(A) 9 Feb. 1960 – to Professor Coelho de Moraes
(A) 9 Feb. 1960 – to Dr. Leonard
(A) 9 Feb. 1960 – to Fosberg
(A) 9 Feb. 1960 – to Sr. Aristeguieta
14 Feb. 1960 – from Dr. Delzie Demaree
(A) 16 Feb. 1960 – to Gentlemen (Congreso Geológico Internacional)
(A) 24 Feb. 1960 – to Dr. Leonard
(A) 10 Mar. 1960 – to Dr. Demaree
(A) 28 Mar. 1960 – to Dr. Gould
(A) 28 Mar. 1960 – to Sir (Congreso Geológico Internacional)
7 Apr. 1960 – from Sr. Guadalupe Berlanga O.
(TEX) 14 Apr. 1960 – from Donovan S. Correll
14 Apr. 1960 – from Miss Dorothy S. Manks, Librarian
20 Apr. 1960 – to Correll
(TEX) 29 Apr. 1960 – from Donovan S. Correll
(A) 2 May 1960 – to Miss Manks
(A) 3 May 1960 – to unknown recipient (apparently a letter of recommendation for Romero Casteneda to the Yale School of Forestry)
(A) 3 May 1960 – to Dr. Lems
(A) 5 May 1960 – to Dr. Gould
(A) 5 May 1960 – to Sir (Congreso Geológico Internacional)
(TEX) 10 May 1960 – from Donovan S. Correll
(A) Undated letter to Merrill from Chicago

Additional Relevant Correspondence:

(TEX) 17 June 1960 – Memo- between C. L. Lundell and D. S. Correll (probably from Correll)
(TEX) 3 Oct. 1969 – to Dr. Donovan S. Correll, Texas Research Foundation, from Reed C. Rollins
(TEX) 6 Oct. 1969 – to Dr. Donovan S. Correll, Texas Research Foundation, from Richard A. Howard

AN INDEX TO THE BOTANICAL NAMES TREATED IN IVAN M. JOHSTON'S "STUDIES IN THE BORAGINACEAE"

Acanthaceae Juss., VIII: 46
Acnadena Raf., VIII: 47
Actinocarya Benth., III: 70, 73; XIV: 53; XXII: 67
Actinocarya acaulis (W. W. Sm.) I. M. Johnst., XIV: 53
Actinocarya tibetica Benth., XIV: 53
Adelocaryum Brand, III: 71
Aegiphila obducta Vell., VIII: 63
Aegonychon Gray, III: 47; XXVI: 38
Aipyanthus Steven, III: 45, 47–48; XXVI: 57
Aipyanthus echioides (L.) Steven, III: 47; XXIII: 336; XXVI: 58
Alkanna Adans., XXV: 278, 281
Alkanna Tausch, III: 43–44, 46; XXIII: 303, 314; XXIV: 1, 3; XXV: 259, 269, 278–283, 285, 292; XXVI: 38, 48, 70–71, 75; XXVII: 158–164
Alkanna sect. *Allolepis* I. M. Johnst., XXV: 282
Alkanna sect. *Baphorhiza* A. DC., XXV: 281
Alkanna sect. *Campylocaryum* A. DC., XXV: 282
Alkanna sect. *Eualkanna*, XXV: 281; XXVI: 70
Alkanna lutea (DC.) Moris, XXV: 278–280, 283
Alkanna orientalis (L.) Boiss., XXV: 278, 281
Alkanna scardica Griseb., XXV: 282
Alkanna tinctoria (L.) Tausch, XXV: 278, 281
Allocarya Greene, I: 49, 58–68; II: 46; III: 67; IV: 6, 22; VI: 76, 96; IX: 5–82
Allocarya acanthocarpa Piper, I: 76; IX: 12, 33, 35
Allocarya acanthocarpa var. *echinacea* Jeps., IX: 33
Allocarya acanthocarpa var. *oligochaeta* Jeps., IX: 33
Allocarya aculeolata Piper, IX: 70
Allocarya albiflora Greene, I: 80; II: 41; IV: 27
Allocarya alternifolia Brand, IX: 9; XI: 193
Allocarya ambigens Piper, I: 77; IX: 63, 65
Allocarya anaglyptica Piper, I: 76; IX: 12, 33, 35
Allocarya areolata Piper, I: 79; IX: 78, 80
Allocarya asiatica Kom., III: 68; VII: 80
Allocarya asperula Piper, I: 77; IX: 61
Allocarya asperula var. *dacotica* Brand, IX: 61
Allocarya austinae Greene, I: 76; IX: 12, 36
Allocarya austinae var. *cristata* Jeps., IX: 36
Allocarya australasica Greene, I: 58, 75; III: 68; VII: 80
Allocarya brachycarpa Greene, IX: 75
Allocarya bracteata Howell, I: 79; IX: 68, 70
Allocarya californica Greene, I: 60, 78–79; IX: 61, 70, 79, 81
Allocarya californica var. *debilis* Greene ex C. F. Baker, IX: 68
Allocarya californica var. *stricta* Jeps., IX: 30
Allocarya californica var. *subglochidiata* Jeps., IX: 38
Allocarya calycosa Piper, I: 75; IX: 52–53; XI: 193
Allocarya cervina Piper, I: 79; IX: 72, 74
Allocarya charaxata Piper, I: 77; IX: 39, 41
Allocarya charaxata var. *debilis* Brand, IX: 68, 71
Allocarya chorisana Greene, I: 77; IX: 48
Allocarya chorisana var. *hickmannii* Jeps., IX: 49
Allocarya chorisana var. *myriantha* Jeps., IX: 49
Allocarya chorisana var. *undulata* Jeps., IX: 46
Allocarya cinerea Reiche, I: 80; VI: 93
Allocarya cognata Greene, I: 79; IX: 59, 61
Allocarya conjuncta Piper, I: 79; IX: 68, 71
Allocarya commixta Brand, I: 78; IX: 68, 71
Allocarya cooperi Greene, I: 60, 78; IX: 54, 71
Allocarya corallicarpa Piper, IX: 52; XI: 193
Allocarya corrugata Piper, I: 79; IX: 46–47
Allocarya cristata Piper, I: 76; IX: 12, 36
Allocarya cryocarpa Piper, I: 79; IX: 72, 74
Allocarya cusickii Greene, I: 79; IX: 63–64
Allocarya cusickii var. *jucunda* A. Nelson & J. F. Macbr., I: 78; IX: 55
Allocarya cusickii var. *salsa* Brand, IX: 55
Allocarya debilis Greene ex Brand, IX: 68
Allocarya dichotoma Brand, I: 75; IV: 76
Allocarya dichotoma Piper, IV: 76; IX: 81

Allocarya diffusa Greene, I: 78; IX: 77
Allocarya dispar Piper, I: 79; IX: 78, 80
Allocarya distantiflora Piper, I: 76; IX: 36
Allocarya divaricata Piper, I: 79; IX: 58; XI: 192
Allocarya divergens Piper, I: 77; IX: 39, 41
Allocarya eastwoodae Piper, I: 76; VI: 90; IX: 12, 33, 35
Allocarya echinacea Piper, I: 76; IX: 12–13, 33, 35
Allocarya echinoglochin Greene, I: 76; IX: 31
Allocarya figurata Piper, I: 75; IX: 51; XI: 193
Allocarya filicaulis Brand, IX: 59
Allocarya fragilis Brand, I: 77; IX: 57
Allocarya germaini Reiche, I: 75; VI: 83
Allocarya glabra J. F. Macbr., I: 76–77; IX: 42
Allocarya glyptocarpa Piper, I: 76 IX: 12, 37
Allocarya gracilis Piper, I: 79; IX: 66–68
Allocarya granulata Piper, I: 79; IX: 57
Allocarya greenei Greene, I: 60–62, 76; VI: 90; IX: 8, 12–13, 31
Allocarya greenei var. *hystricula* Jeps., IX: 32
Allocarya hendersoni A. Nelson, IV: 76; IX: 81
Allocarya hickmanii Greene, I: 77; IX: 49–50
Allocarya hillebrandii Brand, IX: 68, 71
Allocarya hirta Greene, IX: 52–53; XI: 193
Allocarya hispidula Greene, I: 79; IX: 71, 74
Allocarya hispidula var. *penicellata* Jeps., IX: 72
Allocarya humilus Greene, I: 75; VI: 85
Allocarya humistrata Greene, I: 60, 77; IX: 28–29, 40
Allocarya humistrata var. *similis* Jeps., IX: 28, 30
Allocarya hystricula Piper, I: 76; IX: 12, 32
Allocarya inornata Piper, I: 79; IX: 46–47
Allocarya insculpta Piper, I: 79; IX: 63, 65
Allocarya interrasilis Piper, I: 78; IX: 75, 77
Allocarya jacunda Piper, I: 78; IX: 55
Allocarya jonesii Brand, I: 77; IX: 49
Allocarya lamprocarpa Piper, IX: 56
Allocarya laxa Piper, I: 79; IX: 66–67
Allocarya leibergii Piper, I: 77; IX: 68, 70–71
Allocarya leptoclada Greene, I: 77; IX: 38
Allocarya limicola Piper, I: 77; IX: 28, 30
Allocarya linifolia J. F. Macbr., I: 74; VI: 88
Allocarya linifolia var. *kunthii* J. F. Macbr., I: 74; VI: 84
Allocarya lithocarya Greene, I: 76; IX: 50
Allocarya lonchocarpa Piper, IX: 61
Allocarya media Piper, I: 79; IX: 58; XI: 192
Allocarya mexicana J. F. Macbr., I: 75
Allocarya microcalyx Brand, IX: 59
Allocarya microcarpa Piper, I: 75; IX: 12, 33, 35
Allocarya minuta Piper, I: 79; IX: 78, 80
Allocarya minuta var. *reticulata* Jeps., IX: 78
Allocarya mollis Greene, I: 60, 74; IX: 8–9, 25
Allocarya mollis var. *vestita* Jeps., I: 75; IX: 26
Allocarya muricata Reiche, I: 79; VI: 98
Allocarya myriantha Greene, I: 77; IX: 49–50
Allocarya nelsonii Greene, I: 77; IX: 61
Allocarya nigra Brand, IX: 72, 74
Allocarya nitens Greene, I: 78; IX: 65
Allocarya oligochaeta Piper, I: 76; IX: 12, 33, 35
Allocarya oppositifolia Reiche, I: 80; VI: 92
Allocarya oricola Piper, I: 77; IX: 39
Allocarya orthocarpa Greene, I: 78; IX: 39, 41
Allocarya papillata Piper, I: 76; IX: 12, 33, 35
Allocarya pedicellaris Reiche, I: 75; VI: 95
Allocarya penicellata Greene, I: 79; IX: 71–72, 74
Allocarya piperi Brand, IX: 68, 71
Allocarya plebeia Greene, I: 78; IX: 81
Allocarya pleurisepala Brand, IX: 9, 15
Allocarya pratensis Piper, I: 79; IX: 66, 67
Allocarya procumbens Greene, I: 80; VI: 89
Allocarya propinqua Greene ex C. F. Baker, IX: 81
Allocarya ramosa Piper, I: 79; IX: 72, 74
Allocarya reticulata Piper, I: 79; 78, 80
Allocarya salina Jeps., I: 77; IX: 42
Allocarya salsa Brandegee, I: 78; IX: 55–56
Allocarya scalpocarpa Piper, I: 79; IX: 66, 68
Allocarya scalpta Piper, I: 79; IX: 79
Allocarya scopulorum Greene, I: 60, 79; IX: 61
Allocarya scouleri Greene, I: 60, 62, 75; IX: 51, 70; XI: 193
Allocarya scouleri var. *hirta* (Greene) A. Nelson & J. F. Macbr., I: 75; IX: 52; XI: 193
Allocarya scripta Greene, I: 77; IX: 27
Allocarya sessiliflora Greene, I: 75; VI: 96
Allocarya sessiliflora Reiche, VI: 96
Allocarya sessiliflora var. *nubigena* Phil. ex Reiche, VI: 91

Allocarya setulosa Piper, I: 77; IX: 63, 65
Allocarya sigillata Piper, I: 77; IX: 28, 30
Allocarya spiculifera Piper, I: 76; IX: 12, 33, 35
Allocarya stipitata Greene, I: 60, 77; IX: 43–44
Allocarya stipitata subsp. *micrantha* Piper, I: 77; IX: 45
Allocarya stipitata var. *micrantha* J. F. Macbr., IX: 45–46
Allocarya stricta Greene, I: 60, 78; IX: 30
Allocarya subglochidiata Piper, I: 79; IX: 39
Allocarya tenera Greene, I: 79; IX: 66; XIII: 385
Allocarya tenicaulis J. F. Macbr., I: 80; VI: 89
Allocarya tenuifolia Greene, I: 78; VI: 96
Allocarya tenuifolia var. *longipes* Reiche, I: 78; VI: 95
Allocarya tenuifolia var. *pulchella* Reiche, VI: 94
Allocarya trachycarpa Greene, I: 78; IX: 75
Allocarya tuberculata Piper, I: 77; IX: 39, 41
Allocarya uliginosa Greene, I: 80; VI: 94
Allocarya undulata Piper, I: 79; IX: 46–48
Allocarya vallata Piper, I: 79; IX: 66–67
Allocarya versicolor Brand, IX: 39, 41
Allocarya vestita Greene, I: 75; X: 26
Allocarya wilcoxii Piper, I: 77; IX: 39
Allocaryastrum Brand in Engl., IX: 12–13
Amblynotopsis J. F. Macbr., I: 48–50; II: 31; VI: 12; XXVIII: 255; XXXI: 161
Amblynotopsis durangensis J. F. Macbr., I: 51
Amblynotopsis floribunda J. F. Macbr., I: 51
Amblynotopsis heliotropioides J. F. Macbr., I: 51; XXXI: 161
Amblynotopsis parryi J. F. Macbr., I: 52
Amblynotopsis peninsularis J. F. Macbr., I: 51
Amblynotus I. M. Johnst., III: 58, 64; IV: 5–6, 18–19
Amblynotus dauricum (Pallas) I. M. Johnst., XIV: 53
Amblynotus obovatus (A. DC.) I. M. Johnst., III: 64; XIV: 53
Amphibologyne Brand in Engl., XXVII: 158–159
Amsinckia Lehm., I: 58, 69; II: 3, 5, 44–45, 58; IV: 18; VI: 6, 25, 98–101; IX: 9, 11–12; XI: 197–204; XXIII: 306; XXV: 288; XXVII: 158–160, 163
Amsinckia angustifolia Lehm., II: 44; III: 75; VI: 99; XI: 199, 203–204
Amsinckia angustifolia var. *microcarpa* Speg., I: 54; VI: 100–101
Amsinckia angustifolia var. *pseudolycopsioides* Colla, II: 44; VI: 99–100
Amsinckia arenaria Suksd., XI: 201
Amsinckia basistaminea Ces., II: 44; VI: 100
Amsinckia douglasiana A. DC., II: 28; XI; 197, 202–203
Amsinckia grandiflora Kleeb. ex A. Gray, XI: 198
Amsinckia hispida (Ruíz & Pav.) I. M. Johnst., III: 75; VI: 98–99
Amsinckia humifusa Walp., I: 75; VI: 86, 97
Amsinckia intermedia Fisch. & C. A. Mey., XI: 197–199, 203; XII: 22; XXV: 288
Amsinckia lemmonii J. F. Macbr., XI: 202–203
Amsinckia lycopsoides (Lindl.) Lehm., XI: 197–202, 204
Amsinckia mexicana Martens & Galeotti, II: 45; V: 42
Amsinckia nigricans Brand, XI: 198
Amsinckia parviflora Bernh., II: 44; VI: 99; XI: 203–204
Amsinckia parvifolia Bernh., XI: 203–204
Amsinckia patagonica Speg., I: 54; VI: 50
Amsinckia pseudolycopsioides Speg., II: 44; VI: 99–100
Amsinckia scouleri I. M. Johnst., XI: 202
Amsinckia simplex Suksd., XI: 200–201
Amsinckia spectabilis Fisch. & C. A. Mey., XI: 197–200
Amsinckia tessellata A. Gray, I: 68–69; VI: 92, 98; XII: 22; XIII: 382
Anchusa L., II: 4, 8; III: 53–55; VI: 5, 22; XXIII: 306; XXV: 298; XXVII: 158–159
Anchusa aggregata Lehm., III: 55
Anchusa angustifolium L., II: 9
Anchusa arvalis Rchb., II: 9
Anchusa arvensis (L.) M. Bieb., VI: 23
Anchusa asperrima Delile, XXIII: 325
Anchusa aucheri A. DC., III: 55
Anchusa azurea Mill., II: 8–9
Anchusa benthamia Lindl., XI: 200
Anchusa canescens H. L. Muhl., II: 30; XXIII: 340
Anchusa capensis Thunb., II: 9
Anchusa ciliata Cham., II: 11; VI: 20
Anchusa cruciata Cham., I: 49, 51; VI: 12

Anchusa dasycantha Cham., II: 12; VI: 16
Anchusa depressa Sessé & Moç., II: 53; XVII: 108
Anchusa echioides (L.) M. Bieb., XXIII: 336
Anchusa hirta H. L. Muhl., II: 31; XXIII: 339
Anchusa hispida Forssk., III: 55
Anchusa hispidissima Sieber ex Lehm., XXIII: 325
Anchusa humilis (Desf.) I. M. Johnst., III: 55
Anchusa incana Sessé & Moç., II: 53; XIII: 375–376; XVII: 107
Anchusa italica Retz., II: 9
Anchusa kunthii Walp., I: 74; VI: 84
Anchusa leptophylla Roem. & Schult., II: 9
Anchusa linifolia Lehm., I: 74; VI: 88 *Anchusa lutea* Cav., II: 43
Anchusa mexicana Sessé & Moç., II: 24; XVII: 109; XXIII: 361
Anchusa moltkioides Benth., XXVIII: 305
Anchusa myosotidiflora Lehm., III: 55
Anchusa myosotidiflora var. *grandiflora* DC., III: 55
Anchusa neglecta A. DC., III: 55
Anchusa officinalis L., II: 9; IV: 23; XXIV: 4
Anchusa officinalis var. *angustifolia* DC., II: 9
Anchusa oppositifolia Humb., Bonpl. & Kunth, I: 49, 74; III: 68; VI: 88
Anchusa paniculata Aiton, II: 9
Anchusa polygama Ham. ex G. Don, XXIII: 325
Anchusa pygmaea Humb., Bonpl. & Kunth, I: 74; VI: 87
Anchusa rosea M. Bieb., II: 7
Anchusa saxatilis Pall., XXVI: 46
Anchusa sellowiana Cham., II: 13; VI: 15–16 XI: 194
Anchusa sikkimensis C. B. Clarke, III: 62
Anchusa stoechadifolium Cham., I: 49, 51; VI: 13–14
Anchusa tetraquetra Cham., I: 51; II: 12; VI: 15
Anchusa tuberosa Humb., Bonpl. & Kunth, II: 28; XXIII: 352
Anchusa virginiana L., II: 30; XXIII: 340
Anchusa zeylanica Vahl, II: 33; VI: 109
Anchuseae DC. in Meissn., II: 3; III: 42–44, 46–47, 52, 55–56, 63, 67; IV: 17; VI: 22; XXV: 262; XXVI: 48; XXVII: 158
Anchusopsis Bisch., III: 71
Ancistrocarya Maxim., III: 45, 47; XXV: 268; XXVI: 2, 35–38; XXVII: 158–163, 165
Ancistrocarya japonica Maxim., III: 47; XXVI: 35–36
Ancistrocarya japonica var. *albiflora* Honda, XXVI: 36
Anisanthera Raf., III: 70
Anonymos caroliniense Walter, II: 30; XXIII: 339; XXVI: 59
Anoplocaryum Ledeb., III: 59, 67; IV: 5
Anoplocaryum compressum (Turcz.) Ledeb., III: 67
Antiotrema Hand.-Mazz., IV: 16; V: 44–45; XII: 25
Antiotrema dunnianum (Diels) Hand.-Mazz., V: 44; XII: 25
Antiphytum DC. ex C. F. Meissn., I: 48–52; II: 4, 12; II: 31; III: 43–44; IV: 5–6, 14, 18; VI: 6, 11, 12, 14; IX: 14–15; XXVII: 158; XXVIII: 255
Antiphytum bornmulleri Pilg., I: 51; II: 12; VI: 15
Antiphytum bornmulleri var. *asperior* Pilg., I: 51; II: 12; VI: 15
Antiphytum caespitosum I. M. Johnst., I: 51–52
Antiphytum cruciatum (Cham.) DC., I: 49–51; VI: 12, 14
Antiphytum floribundum (Torr.) A. Gray, I: 50–51; IV: 105; V: 41–42
Antiphytum heliotropioides A. DC., I: 49–51; IV: 105
Antiphytum linifolium DC., I: 51, 74; VI: 88
Antiphytum mexicanum DC., I: 49; II: 53; V: 42; XII: 16–17; XVII: 108
Antiphytum nudicalces I. M. Johnst., I: 50–52
Antiphytum paniculatum I. M. Johnst., I: 50–51
Antiphytum parryi S. Watson, I: 51–52; IV: 106
Antiphytum peninsulare (Rose) I. M. Johnst., I: 50–51; IV: 18, 106
Antiphytum stoechadifolium (Cham.) DC., VI: 12–13
Antiphytum tetraquetrum (Cham.) A. DC., I: 50–51; II: 12, 31; VI: 15
Antiphytum walpersii A. DC., I: 74; VI: 84
Antirhea bifida (Lam.) I. M. Johnst., XI: 166
Antirhea frangulacea DC., XI: 166
Antirrhoea dichotoma Hemsl., VIII: 69

Antrophora I. M. Johnst., XIX: 172–176
Antrophora williamsii I. M. Johnst., XIX: 172
Argusia Amman, XI: 161–162; XX: 118
Arguzia Raf., VIII: 74; XI: 161–162
Arguzia cimmerica Steven, XI: 164
Arguzia messerschmidia Steven, XI: 164
Arguzia repens Raf., XI: 164
Arguzia rosmarinifolia Steven, XI: 164
Argyreia arborea Lour., XX: 8
Argyrexias Raf., III: 51; XXV: 283
Arnebia Forssk., III: 43, 45, 48–49; XII: 21; XXIII: 299–301, 309–315, 354; XXVI: 3, 46–48, 51–59, 61–63; XXVII: 158–163, 165
Arnebia sect. *Euarnebia*, XXVI: 55; XXVII: 162
Arnebia sect. *Strobila* (G. Don) I. M. Johnst., XXVI: 55
Arnebia argyrea Rech. f., XXIV: 12
Arnebia asperrima (Delile) Hutch. & Dalziel, XXIII: 325
Arnebia benthami (Wall.) I. M. Johnst., XXIII: 312–313; XXVI: 51, 56
Arnebia bungei Boiss., XXIII: 312, 326; XXIV: 7–8
Arnebia cephalotes A. DC., III: 48; XXIII: 332
Arnebia cornuta (Ledeb.) Fisch. & C. A. Mey., XXIII: 322
Arnebia cyrousiana Parsa, XXIV: 7; XXVI: 58
Arnebia decumbens (Vent.) Coss. & Kralik, XXIII: 312, 314, 322; XXVI: 47, 55, 59
Arnebia decumbens var. *macrocalyx* Coss. & Kralik, XXIII: 324
Arnebia densiflora Ledeb., XXIII: 312–313, 331; XXVI: 51, 56
Arnebia echioides (L.) A. DC., XXIII: 312–315, 336; XXIV: 7; XXVI: 53, 57–58
Arnebia euchroma (Royle) I. M. Johnst., III: 49; XII: 21; XXIII: 312–313, 334; XXVI: 51, 56–57
Arnebia fimbriata Maxim., XII: 21; XXIII: 312–313, 328; XXVI: 56
Arnebia fimbriopetala Stocks, XXIII: 312, 326; XXIV: 7–8; XXVI: 56
Arnebia flavescens Boiss., XXIII: 328
Arnebia griffithii Boiss., XXIII: 312, 326; XXVI: 56
Arnebia guttata Bunge, XXII: 75; XXIII: 312–313, 330; XXVI: 56; XXVII: 162
Arnebia hancockiana (Oliv.) I. M. Johnst., XII: 21; XXIII: 312–314, 354
Arnebia hispidissima (Lehm.) DC., XXIII: 312, 325; XXVI: 51–55
Arnebia inconspicua Hemsl. & Lace, XXIII: 333; XXIV: 7, 12; XXVI: 56
Arnebia leptosiphonoides Vatke, XXIII: 326
Arnebia lindbergiana (Rech. f.) I. M. Johnst., XXVI: 56
Arnebia linearifolia DC., XXIII: 312, 314, 328; XXVI: 56
Arnebia longiflora G. Koch, XXIII: 336; XXVI: 58
Arnebia lutea (A. Rich.) Armari, XXIII: 325
Arnebia macrothyrsa Stapf, XXIII: 332
Arnebia minima Wettst., XXIII: 312, 314, 327; XXVI: 56
Arnebia nobilis K. H. Rech., XXIV: 14; XXVI: 57
Arnebia obovata Bunge, XXIII: 312–314, 329; XXVI: 56
Arnebia olgae Regel, XXIII: 329
Arnebia orientalis (Pall.) Lipsky, XXIII: 322
Arnebia perennis (Schrenk) A. DC., XXIII: 334
Arnebia purpurascens (A. Rich) Baker, XXIII: 325
Arnebia saxatilis (Pall.) Benth. & Hook., XXVI: 47
Arnebia sewerzowi Regel, XXIII: 329
Arnebia speciosa Aitch. & Hemsley, XXIII: 333; XXIV: 7, 13; XXVI: 56
Arnebia szechenyi Kanitz, XXIII: 312–313; 330 XXVI: 56
Arnebia tetrastigma Forssk., XXIII: 321; XXVI: 51, 55; XXVII: 162; XXIX: 272
Arnebia thomsoni C. B. Clarke, XXIII: 331
Arnebia tibetana Kurz, XXIII: 331
Arnebia tinctoria Forssk., XXIII: 312–314, 321
Arnebia tingens A. DC., XXIII: 334
Arnebiola Chiov., XXIII: 301, 325; XXVI: 51
Arnebiola migiurtina Chiov., XXIII: 325; XXVI: 51
Asperugo L., II: 5, 44; III: 59, 66
Asperugo procumbens L., II: 44
Auxemma Miers, VIII: 64
Auxemma oncocalyx (Allemão) Baill., VIII: 64

Baphorhiza Link, III: 46; XXV: 278, 281

Baphorhiza lutea Font Quer & Rothm., XXV: 281
Baphorhiza orientalis (L.) Font Quer & Rothm., XXV: 281
Baphorhiza tinctoria Link, XXV: 281
Batschia J. F. Gmel., II: 18; VI: 7; XXVI: 59
Batschia albiflora Raf., II: 53
Batschia canescens Michx., II: 30; XXIII: 340
Batschia caroliniensis (Walter) J. F. Gmel., II: 30; XXIII: 339
Batschia conspicua R. Br., II: 30; XXIII: 340
Batschia decumbens Nutt., II: 25; XXIII: 344; XXVI: 59
Batschia disticha Don, II: 24; XXIII: 361
Batschia gmelini Michx., II: 31; XXIII: 339
Batschia longiflora Nutt., II: 24; XXIII: 344; XXVI: 59
Batschia pilosa (Nutt.) G. Don, II: 30; XXIII: 348
Batschia sericea Roem. & Schult., II: 30; XXIII: 340
Batschia torreyi (Nutt.) Don, II: 30; XXIII: 348
Benthamia Lindl., II: 44; XI: 199–201
Benthamia angustifolia Druce, II: 44; VI: 99
Benthamia basistaminea Druce, II: 44; VI: 100
Benthamia humifusa Druce, I: 75; VI: 97
Benthamia lycopsoides Lindl. ex DC., XI: 200
Bessera Schultes, III: 57
Beureria Ehret., XVIII: 128
Beurreria Jacq., XVIII: 128
Bilegnum Brand, III: 72
Boraginella (Sigesb.) Kuntze, III: 70
Boraginoideae, II: 3–55; III: 42, 44; IV: 14, 16–17; V: 44; VI: 3–118; VII: 82; XVI: 233; XIX: 176; XX: 13; XXV: 297; XXVI: 68
Borago L., II: 3, 7; III: 52–53; VI: 5, 22, 24–25; XXVII: 160
Borago officinalis L., II: 7; IV: 24; XVI: 235
Borellia Neck., VIII: 47
Borellia aspera Raf., VIII: 55; X: 11
Borraginoides Moench, III: 70
Bothriospermum Bunge, III: 43, 69–70, 72–73; IV: 16; V: 44–45; VI: 109; XXVII: 158
Bothriospermum kusnetzowii Bunge ex DC., XII: 25
Bourreria P. Browne, XV: 348; XVII: 106; XVIII: 111, 128
Bourreria calophylla (A. Rich.) C. Wright, XVII: 106–107
Bourreria cumanensis (Loefl.) O. E. Schulz, X: 2; XVIII: 128
Bourreria glabra G. Don, XV: 345
Bourreria hintonii I. M. Johnst., XVI: 228; XXVIII: 294
Bourreria huanita (La Llave & Lex.) Hemsl., XIV: 49
Bourreria longiflora I. M. Johnst., XVI: 228
Bourreria panamensis I. M. Johnst., XVI: 229
Bourreria recurva Miers, XVIII: 128
Bourreria rekoi Standl., XVI: 229
Bourreria rotata (DC.) I. M. Johnst., XVII: 107
Bourreria rowellii I. M. Johnst., XXVIII: 293–294
Bourreria spathulata (Miers) I. M. Johnst., XVII; 107; XXVIII: 294
Bourreria succulenta Jacq., XV: 345, 348; XVIII: 128
Bourreria superba I. M. Johnst., XIV: 48; XVI: 229
Bourreria superba var. *glabra* Schery, XVI: 229
Bourreria virdis Rusby, XXII: 64
Brachybothrys Maxim., III: 58–59
Brachybothrys paridiformis Maxim., III: 59
Brunnera Steven, III: 53–55
Brunnera macrophylla (M. Bieb.) I. M. Johnst., III: 54
Brunnera myosotidiflora Steven, III: 55
Brunnera orientalis (Schenk) I. M. Johnst., III: 55
Brunnera siberica Steven, III: 55
Buchenavia capitata (Vahl) Eichler, X: 45
Buglossa Gray, III: 54
Buglossites Moris, III: 53
Buglossoides Moench, III: 47; XXV: 263; XXVI: 3, 38–46, 61–63; XXVII: 158–160, 165; XXIX: 267, 281
Buglossoides sect. *Eubuglossoides*, XXVI: 40–42, 63; XXVII: 162
Buglossoides sect. *Margarospermum* (Rchb.) I. M. Johnst., XXVI: 40–42, 44, 63; XXVII: 162
Buglossoides sect. *Rhytispermum* (Link) I. M. Johnst., XXVI: 33

Buglossoides arvense (L.) I. M. Johnst., XXVI: 40, 42–43
Buglossoides calabrum (Ten.) I. M. Johnst., XXVI: 40, 44–45
Buglossoides gastoni (Benth.) I. M. Johnst., XXVI: 39–40, 45
Buglossoides incrassatum (Guss.) I. M. Johnst., XXVI: 40, 42–44
Buglossoides purpureo-caeruleum (L.) I. M. Johnst., XXVI: 39–40, 44
Buglossoides ramosissima Moench, XXVI: 38
Buglossoides tenuiflorum (L. f.) I. M. Johnst., XXVI: 40, 42
Buglossoides zollingeri (A. DC.) I. M. Johnst., XXVI: 39–40, 44–45
Buglossum Gaertn., III: 55
Buglossum elatum Moench, II: 9
Buglossum lanuginosum Rumphius, XI: 165

Caccinia Savi, III: 44, 69–70; XXVII: 159–160
Caccinia monandra (Bunge) I. M. Johnst., III: 70
Calandrinia Kunth, V: 42; VI: 97
Calyptracordia Britton, VIII: 7
Calyptracordia alba Britton, XVIII: 122
Camptocarpus G. Koch, III: 46; XXV: 278
Campylocaryum DC. ex Meisn., III: 46; XXV: 278
Caprifoliaceae Ant. Juss., XII: 21
Carmona Cavaco, XX: 1, 16–17, 19
Carmona heterophylla Cavaco, XX: 16–17
Carmona microphylla (Lam.) G. Don, XX: 17
Carmona retusa (Vahl) Masamune, XX: 17
Carmona vinimea (Wall.) G. Don, XX: 15
Caryolopha Fisch. & Trautv., III: 53–54; XXVI: 48
Caryolopha sempervirens (L.) Fisch. & Trautv., III: 54
Caryophyllaceae Ant. Juss., XXIX: 283
Casselia Dumort., III: 66
Catonia Raf., VIII: 18
Catonia lantanoides Raf., VIII: 18
Cerdana Ruíz & Pav., VIII: 8, 13; XVII: 105
Cerdana alliodora Ruíz & Pav., VIII: 8, 13; X: 8; XVIII: 115; XIX: 181
Cerdana complicata Ruíz & Pav. ex Chodat, VIII: 13
Cerdana cujabensis Silva Manso ex DC., VIII: 13
Cerdana exaltata Ruíz & Pav. ex Chodat, VIII: 13
Cerdana gerascanthus (L.) Moldenke, XIX: 182
Cerinthe L., II: 5, 44; III: 44–45; XXIV: 1; XXVI: 3, 65–69, 75; XXVII: 158–161, 163–165
Cerinthe glabra Mill., XXVI: 69
Cerinthe gymnandra var. *macrosiphonia* Murb., XXVI: 67
Cerinthe lanceolata Sessé & Moç., II: 53; XVII: 107
Cerinthe major L., II: 44; XXVI: 65, 67, 69
Cerinthe minor L., XXVI: 69
Cerinthe retorta Sibth. & Sm., XXVI: 67, 69
Cerinthodes (Ludw.) Kuntze, III: 67
Chenopodiaceae Vent., XXIX: 283
Chilochium Raf., III: 49; XXIX: 261
Chinocharis I. M. Johnst., III: 59, 66; IV: 18–19; V: 45–46
Chinocharis hookeri (Clarke) I. M. Johnst., III: 66
Clerodendron R. Br. ex Meisn., XXVI: 18
Clerodendron cyrtophyllum Turcz., XX: 11
Cochranea Miers, VII: 25
Cochranea anchusaefolium Gürke, VII: 21
Cochranea angustifoliua var. *latifolia* Hicken, VII: 22
Cochranea chenopodiacea Miers, VII: 29
Cochranea conferta Miers, VII: 25, 33
Cochranea conferta var. *auriculata* Miers, VII: 26–27
Cochranea congesta Miers, VII: 33
Cochranea corymbosa Miers, VII: 35
Cochranea crassifolia Phil., VII: 35
Cochranea ericoidea Miers, VII: 29–30
Cochranea filifolia Miers, VII: 32
Cochranea florida Miers, VII: 37
Cochranea glutinosa Phil., VII: 33
Cochranea hebecula Miers, VII: 31–32
Cochranea hispidula Miers, VII: 31–32
Cochranea kingii Phil., VII: 32
Cochranea longistyla Phil., VII: 34
Cochranea myosotifolia Miers, VII: 31–32
Cochranea parviflora Phil., VII: 28

Cochranea pycnophylla Phil. ex Reiche, VII: 35
Cochranea rosmarinifolia Phil., VII: 27
Cochranea rugosa Phil., VII: 27
Cochranea sclerocarpa Phil., VII: 30
Cochranea sentis Phil., VII: 31–32
Cochranea sinuata Miers, VII: 26
Cochranea stenophylla Miers, VII: 33
Cochranea taltalensis Phil., VII: 27
Coilanthera Raf., VIII: 40
Coldenia L., II: 55–61; IV: 15; V: 44; VI: 11; XI: 183–185; XX: 1, 12; XXVIII: 298–299
Coldenia sect. *Eddya* (Torr.) A. Gray, II: 56–58; XVI: 230
Coldenia sect. *Eucoldenia*, II: 56–57
Coldenia sect. *Sphaerocarya* I. M. Johnst., II: 56–57; XI: 184–185
Coldenia sect. *Tiquiliopsis* A. Gray, II: 56–57
Coldenia ser. *Stegnocarpus* (DC.) I. M. Johnst., II: 56
Coldenia ser. *Tiquilia* (Pers.) I. M. Johnst., II: 56
Coldenia atacamensis Phil., II: 57–58, 60–61; XI: 185
Coldenia aggregata Rusby, II: 60
Coldenia brevicalyx S. Watson, II: 57
Coldenia canescens Torr. & A. Gray, II: 56–57; IV: 15; XIII: 379; XXXI: 159
Coldenia canescens var. *pulchella* I. M. Johnst., XIII: 379
Coldenia conspicua I. M. Johnst., XI: 183–185; XXVIII: 299–300
Coldenia cuspidata I. M. Johnst., II: 57
Coldenia darwinii (Hook. f.) Gray, II: 58–59
Coldenia decumbens Hauman, II: 57–59; V: 43–44; XI: 185
Coldenia dichotoma (Ruíz & Pav.) Lehm., II: 54–59; VI: 11; XI: 184–185; XXVIII: 297–299
Coldenia dombeyana Juss., II: 58
Coldenia elongata Rusby, II: 61; XI: 185; XXVIII: 300
Coldenia ferreyrae I. M. Johnst., XXVIII: 296–297, 299
Coldenia fusca Gray, II: 59
Coldenia glabra Phil., II: 61
Coldenia gossypina (Wooten & Standl.) , XXXI: 158–159
Coldenia grandiflora Phil., II: 56–59; XXVIII: 298–299
Coldenia greggii (Torr. & A. Gray) A. Gray, II: 56
Coldenia hirsutissima Torr. & A. Gray, IV: 15
Coldenia hispidissima Tor. & A. Gray, II: 57; XXXI: 158–159
Coldenia litoralis Phil., II: 57–58, 60; IV: 15; XI: 185; XXVIII: 299–300
Coldenia mexicana S. Watson, II: 57; XXXI: 159
Coldenia mexicana var. *tomentosa* (S. Watson) I. M. Johnst., XXXI: 159
Coldenia mitis Phil., II: 60
Coldenia nevadensis Gand., V: 43
Coldenia nuttallii Nutt., II: 57; IV: 15; V: 43–44; VII: 75; XI: 185; XIII: 381
Coldenia palmeri A. Gray, II: 57
Coldenia paronychioides Phil., II: 54, 57–58, 60; VI: 11; VII: 72; XXVIII: 299–300
Coldenia parviflora Phil., II: 57–58, 61; XI: 185; XXVIII: 299
Coldenia pentandra Juss., II: 58
Coldenia phaenocarpa Phil., II: 61; VII: 13
Coldenia plicata (Torr.) Coville, II: 57
Coldenia procumbens L., II: 56; XX: 12–14; XXVIII: 298
Coldenia purpusii Brandegee, II: 57
Coldenia simulans I. M. Johnst., XXVIII: 297–298
Coldenia tenuis Phil., II: 60
Coldenia tomentosa S. Watson, II: 57; XXXI: 159
Coldenia virens Phil., II: 60
Colococca Raf., VIII: 47
Colsmannia Lehm., III: 46; XXVI: 73
Colsmannia flava Lehm., XXVI: 73
Conyza scorpioides Lam., XI: 185
Cordia L., VIII: 3–66; X: 1, 3–45; XI: 160, 173–181; XV: 336–355; XVI: 227–228; XVII: 85–106; XVIII: 111–127; XX: 1–12
Cordia subgen. *Gerascanthus* Schltdl. & Cham., VIII: 8
Cordia subgen. *Varronia* Schltdl. & Cham., VIII: 18
Cordia sect. *Calyptracordia* (Britt.) I. M. Johnst., VIII: 7

Cordia sect. *Cordiopsis* A. DC., VIII: 18
Cordia sect. *Eucordia*, VIII: 7, 40–46, 48; XI: 173
Cordia sect. *Gerascanthus* (P. Browne) G. Don, III: 77; VIII: 7–18; XIX: 172, 179–187; XXII: 62–64
Cordia sect. *Myxa* (Endl.) I. M. Johnst., VIII: 48; XX: 2
Cordia sect. *Myxa* subsect. *Dasycephalae* Gürke, VIII: 18
Cordia sect. *Physoclada* DC., VIII: 7–8, 46; X: 16
Cordia sect. *Pilicordia* A. DC., VIII: 6–8, 34, 47–62; X: 2, 16, 20; XV: 337; XX: 2
Cordia sect. *Rhabdocalyx* A. DC., VIII: 8; XXII: 63
Cordia sect. *Sebestena* I. M. Johnst., XX: 4–5
Cordia sect. *Sebestena* subsect. *Varronia* Endl., VIII: 18
Cordia sect. *Sebestenae* G. Don, VIII: 40
Cordia sect. *Sebestenoides* DC., VIII: 40
Cordia sect. *Varronia* (P. Browne) Don, VIII: 6–7, 18–40, 64; XI: 160, 174, 177–178; XV: 337; XVI: 227; XVII: 85–104; XXII: 62–63; XXVIII: 288–291
Cordia sect. *Varronia* Gürke, VIII: 18
Cordia sect. *Varronia* subsect. *Dasycephalae* Don, VIII: 18
Cordia-Dasycephalae Humb., Bonpl. & Kunth, VIII: 18
Cordia-Sebestenae Humb., Bonpl. & Kunth, VIII: 40
Cordia-Varroniae Humb., Bonpl. & Kunth, VIII: 18; XI: 160; XXVIII: 288, 291
Cordia * *Crassifoliae* Mez, VIII: 7
Cordia * *Myxae* Mez, VIII: 7
Cordia * *Pilicordia* Mez, VIII: 7; X: 2
Cordia * *Strigosae*, VIII: 7
Cordia abberans I. M. Johnst., XI: 173
Cordia acutifolia Fresen., VIII: 49, 57
Cordia adnata DC., XVII: 91
Cordia affinis Fresen., VIII: 24–25
Cordia alba (Jacq.) Roem. & Schult., VIII: 7; X: 2; XV: 347–349
Cordia alba sensu Auct. recent, XV: 347; XVIII: 122
Cordia alliodora (Ruíz & Pav.) Cham., III: 78; VIII: 8
Cordia alliodora (Ruíz & Pav.) Oken (early papers as Cham.), III: 78; VIII: 9, 13–14, 16; X: 5, 8–9; XVII: 105; XVIII: 112, 115–116; XIX: 179–182; XXII: 64
Cordia alliodora var. *boliviana* Chodat & Vischer, VIII: 13
Cordia alliodora var. *glabra* A. DC., VIII: 13
Cordia alliodora var. *tomentosa* A. DC., VIII: 15; X: 9
Cordia ambigua Schlect. & Cham., VIII: 47; XVII: 86, 94
Cordia amplifolia Mez, VIII: 62; XI: 174
Cordia anabaptista Cham., VIII: 42, 46
Cordia anderssoni (Kuntze) Gürke, XI: 175–176
Cordia andina Chodat, VIII: 13
Cordia angiocarpa A. Rich., VIII: 41
Cordia angustifolia Roem. & Schult., XIX: 178
Cordia appendiculata Greenm., XVII: 87
Cordia aspera G. Forst., XX: 5
Cordia asperrima DC., XVII: 96–98
Cordia asperrima Spreng., VIII: 63; XVII: 96
Cordia asterophora Mart. ex Fresen., VIII: 15, 18
Cordia asterothrix Killip, XVII: 89
Cordia atrofusca Taub., VIII: 45
Cordia aubletii DC., VIII: 29; X: 39, 41–43
Cordia aubletii sensu Pulle, X: 39–40
Cordia aubletii sensu M. R. Schomb., X: 40
Cordia axillaris I. M. Johnst., VIII: 20, 35–36; XI: 179; XXVIII: 292
Cordia axillaris var. *gymnocarpa* I. M. Johnst., VIII: 35–36; XI: 179
Cordia bahiensis DC., VIII: 29–30; X: 43
Cordia bicolor A. DC., VIII: 54–55; X: 7, 23–25; XII: 11–12; XV: 338, 349; XVIII: 114, 124–125; XIX: 177
Cordia bifurcata Roem. & Schult., VIII: 33; X: 34; XVII: 86, 90, 92; XVIII: 119
Cordia blanchetii DC., VIII: 44
Cordia boissieri A. DC., XVII: 105
Cordia bogotensis Benth., X: 11
Cordia boliviana Gand., VIII: 33; XVIII: 119
Cordia bonplandii (Desv.) Roem. & Schult., XVII: 96
Cordia braceliniae I. M. Johnst., XI: 177
Cordia brachypoda DC., VIII: 57–58
Cordia bracteata DC., XIX: 182

Cordia brachytricha Fresen., VIII: 62
Cordia brevispicata M. Martens & Galeotti, XVII: 99
Cordia brevispicata var. *hypomalaca* Greenm., XVII: 99
Cordia bridgesii (Friesen) I. M. Johnst., XXII: 64; XXVIII: 291
Cordia brownei (Friesen) I. M. Johnst., XIX: 177–178
Cordia brownii DC., XIX: 178; XX: 8
Cordia buchii Urb., XXVIII: 289–290
Cordia buddleoides Rusby, VIII: 20, 34–35; XI: 179
Cordia bullata (L.) Roem. & Schult., XVII: 87, 96–97, 99–100
Cordia bullata var. angustata DC., XVIII: 116
Cordia caaguazuensis Chodat, VIII: 39
Cordia callococca L., XVIII: 123–124
Cordia calocephala Cham., VIII: 21, 38–39, 64
Cordia calophylla Vahl, X: 18
Cordia calyptrata Bertero ex Sprengel, XV: 347
Cordia campanulata Roxb., XX: 3
Cordia campestris Warm., VIII: 29–30; XI: 178–179
Cordia cana M. Martens & Galeotti, XVII: 95
Cordia candida Vell., VIII: 42–43; XI: 173
Cordia canescens Humb., Bonpl. & Kunth, XI: 175; XVIII: 120
Cordia canescens Willd., X: 39
Cordia caput-medusae Taub., VIII: 21, 37–38; XVIII: 117
Cordia carnosa Rusby, VIII: 54–55; X: 23
Cordia cerdana Roem. & Schult., VIII: 8, 13
Cordia chacoensis Chodat, VIII: 20, 26–29; XI: 178–179
Cordia chamissoniana Don, VIII: 49–51; X: 20–21
Cordia chamissoniana Steud., VIII: 15, 18
Cordia chamissoniana var. *aemilii* Chodat, VIII: 15, 18
Cordia chamissoniana var. *blanchetii* Chodat, VIII: 15, 17–18
Cordia chamissoniana var. *complicata* (Ruíz & Pav.) Chodat, VIII: 13
Cordia chamissoniana var. *gardneri* Chodat, VIII: 15, 18
Cordia chamissoniana var. *martii* Chodat, VIII: 15, 18
Cordia chamissoniana var. *nemorensis* Chodat, VIII: 15, 18
Cordia chepensis Pittier, XVII: 99, 102; XVIII: 120
Cordia chiapensis Fernald, XVII: 90
Cordia clarkei Brace ex Prain, XX: 7
Cordia cochinchinensis Gagnep., XX: 3, 11
Cordia coffeoides Warm., VIII: 59–60
Cordia colimensis I. M. Johnst., XIX: 181, 186
Cordia callococca L., XV: 336–338, 345–346, 350–351; XVIII: 114, 123–124
Cordia callococca var. *ehretioides* (Lam.) Poir., XVIII: 123
Cordia callococca sensu Aublet, X: 14
Cordia colombiana Killip, XII: 13
Cordia consanguinea Klotzsch ex Chodat, VIII: 13; XIX: 182
Cordia corchorifolia A. DC., VIII: 21, 37–38
Cordia cordifolia Humb., Bonpl. & Kunth, VIII: 55; X: 11
Cordia cordiformis I. M. Johnst., XII: 10–11; XV: 337, 341
Cordia coriacea Killip, VIII: 54–55; X: 23
Cordia coriacea Sagot ex Benoist, X: 27–29
Cordia corymbosa (Desv.) Don, X: 34
Cordia corymbosa (L.) Don, VIII: 19–20, 30–36; X: 35–36; XI: 179; XVII: 90–91, 93; XVIII: 118–119
Cordia corymbosa of Urb., X: 34
Cordia corymbosa Willd. ex Roem. & Schult., XI: 33–34, 36; XVII: 91, 93
Cordia corymbosa f. *detonsa* I. M. Johnst., VIII: 33
Cordia corymbosa f. *hirsutum* I. M. Johnst., VIII: 33–34
Cordia corymbosa f. *intonsa* I. M. Johnst., VIII: 33–34
Cordia corymbosa f. *typica*, VIII: 33
Cordia costaricensis I. M. Johnst., XVII: 87, 103
Cordia coyucana I. M. Johnst., XVI: 227; XVII: 85–86, 94
Cordia crenata sensu Duthie, XX: 8
Cordia crenulata A. DC., XVII: 104, 106

Cordia cujabensis Silva Manso & Lhotsky, VIII: 13
Cordia cujabensis var. *glabrescens* Hassl. & Chodat, VIII: 15, 18
Cordia cummingiana Vidal, XX: 5, 8
Cordia cuneiformis DC., XVII: 101; XVIII: 121
Cordia curassavica (Jacq.) Roem. & Schult., VIII: 26–27; X: 38; XVII: 85, 87, 93–94, 99–102; XVIII: 113, 120–121
Cordia curassavica of auct. bras., VIII: 25
Cordia curassavica sensu M. R. Schomb., X: 45
Cordia curassavica var. *platyphylla* (Kuntze) I. M. Johnst., XVIII: 121
Cordia cylindrostachya (Ruíz & Pav.) Roem. & Schultes, VIII: 26; XVII: 99, XVIII: 121; XIX: 178–179
Cordia cylindrostachya of auct. bras., VIII: 25
Cordia cylindrostachya sensu M. R. Schomb., X: 37
Cordia cylindrostachya var. *graveolens* (Humb., Bonpl. & Kunth.) Griseb., XVIII: 120
Cordia cylindrostachya var. *interrupta* (DC.) Griseb., XVIII: 120
Cordia cymosa (Donn. Sm.) Standl., XV: 336, 338, 346–349, 353; XVIII: 113, 122
Cordia dasycephala (Desv.) Humb., Bonpl. & Kunth, XVIII: 116
Cordia decandra Hook. & Arn., VIII: 41
Cordia decipiens I. M. Johnst., XII: 11
Cordia dentata Poir., XV: 338, 347–349, 353; XVIII: 113, 122
Cordia dichotoma G. Forst., X: 25, 34; XVIII: 90, 123; XIX: 178; XX: 3, 8, 10–11
Cordia dichotoma Klotzsch ex Schomb., VIII: 54; X: 23
Cordia digynia Vell., VIII: 59–60
Cordia diospyrifolia Cham., VIII: 60–61
Cordia discolor Cham., VIII: 30, 32–33; XVIII: 119
Cordia divaricata Humb., Bonpl. & Kunth, XVII: 101–102; XVIII: 113, 121
Cordia diversifolia Moç., XII: 11
Cordia diversifolia Pav. ex A. DC., VIII: 47; XV: 336–337, 340–341, 343–344; XVII: 105
Cordia dodecandra DC., XV: 337; XVII: 105–106
Cordia dodecandria Sessé & Moç., XVII: 105
Cordia ecalyculata Vell., VIII: 49, 59–61; XII: 12
Cordia echitoides Lam. ex D. Dietr., VIII: 63; X: 44
Cordia ehretioides Lam., XVIII: 123
Cordia elaeagnoides DC., VIII: 7–8; XVII: 85, 106; XXII: 62–63
Cordia elliptica Sw., VIII: 47; XVIII: 114, 125
Cordia eriostigma Pittier, XV: 338, 346, 350–351
Cordia estrellensis Glaz., VIII: 63
Cordia excelsa A. DC., VIII: 15, 17
Cordia exaltata Lam., X: 7, 29, 31
Cordia exaltata var. *melanoneura* (Klotzsch) I. M. Johnst., X: 7, 30–31
Cordia exsucca Sessé & Moç., XV: 354; XVII: 106
Cordia fallax I. M. Johnst., X: 5, 10
Cordia ferruginea (Lam.) Roem. & Schult., X: 41; XVII: 103–104; XXVIII: 292
Cordia flavescens Aubl., VIII: 63; X: 44
Cordia foliosa M. Martens & Galeotti, XVII: 86, 90
Cordia formicarum Hoffm. ex Roem. & Schult., VIII: 46; X: 13
Cordia fragrans Fresen., VIII: 63
Cordia frondosa Schott ex Spreng., VIII: 15, 17
Cordia fulva I. M. Johnst., X: 6, 20
Cordia furcans I. M. Johnst., XX: 3, 5, 7–8
Cordia galapagensis (Kuntze) Gürke, XI: 175–176
Cordia galeottiana A. Rich., VIII: 41
Cordia gardneri I. M. Johnst., VIII: 49–51
Cordia gerascanthoides Humb., Bonpl. & Kunth, III: 77–78; VIII: 14; XIX: 182
Cordia gerascanthus Jacq., III: 78; VIII: 13
Cordia gerascanthus L., III: 77–78; VIII: 8, 14; XVII: 105; XVIII: 116; XIX: 179–180, 182
Cordia gerascanthus of many authors not L., XVIII: 116
Cordia gerascanthus sensu Humb., Bonpl. & Kunth, XIX: 187
Cordia gerascanthus var. *dominguensis* Cham., VIII: 13; XVIII: 116
Cordia gerascanthus var. *subcanescens* DC., VIII: 13; XVIII: 115
Cordia gerascanthus f. *martinicensis* Chodat, VIII: 13; XVIII: 116

Cordia gerascanthus f. *micrantha* Chodat, VIII: 13; XVIII: 116
Cordia gerascanthus f. *puberula* Kuntze, VIII: 15
Cordia gharaf (Forssk.) Ehrenb. ex Asch., XXVIII: 292–293
Cordia glabra Cham., VIII: 43
Cordia glabra L., VIII: 41–42; XV: 345–346, 350–351; XVIII: 123–124
Cordia glabra of authors, not Linnaeus, XVIII: 123
Cordia glabra of Hook. f., VIII: 45
Cordia glabrata (Mart.) A. DC., VIII: 9, 11, 13
Cordia glabrata var. *amambayensis* Chodat, VIII: 12
Cordia glabrata var. *longipeda* Chodat, VIII: 12
Cordia glabrata var. *orbicularis* Chodat & Vischer, VIII: 12
Cordia glabrata f. *eriophylla* (Kuntze) I. M. Johnst., VIII: 13
Cordia glandulosa Fresen., VIII: 29–30
Cordia glaziovii Taub., VIII: 59–60
Cordia globosa (Jacq.) Humb., Bonpl. & Kunth, VIII: 18, 21, 37; X: 2, 36; XVII: 85, 87, 93, 96–98, 105; XVIII: 112, 116–117
Cordia globosa var. *humilis* (Jacq.) I. M. Johnst., XVII: 98; XVIII: 117
Cordia globulifera I. M. Johnst., XIX: 180, 184
Cordia glomerata Lem., VIII: 43
Cordia goeldiana Huber, VIII: 9–10; XXII: 64
Cordia goudoti Chodat, VIII: 13
Cordia gracilipes I. M. Johnst., XIX: 181, 186
Cordia grandiflora (Desv.) Humb., Bonpl. & Kunth, VIII: 20–22; X: 8, 32; XI: 176–177; XVIII: 112, 116
Cordia grandiflora Lindl., VIII: 44
Cordia grandifolia DC., VIII: 50–51
Cordia grandis Cham., VIII: 50
Cordia grandis Roxb., XX: 7
Cordia graveolens Humb., Bonpl. & Kunth, X: 36, 39; XVIII: 120
Cordia greggii Torr., VIII: 19; XV: 354–355; XVIII: 85; XXII: 62
Cordia greggii var. *palmeri* S. Watson, XV: 354
Cordia guaranitica Chodat & Hassl., VIII: 21, 40
Cordia guaranitica var. *foliosa* Chodat & Hassl., VIII: 40
Cordia guaranitica var. *pedunculosa* Chodat & Hassl., VIII: 40
Cordia guazumaefolia Roem. & Schult., VIII: 30, 34; XI: 179
Cordia guerckeana Loes., XIX: 181, 185
Cordia guianensis Klotzsch ex M. R. Schomb., X: 10–11
Cordia guianensis Meyer, X: 36
Cordia guianensis Roem. & Schult. ex DC., X: 10
Cordia guianensis E. Mey., X: 36
Cordia gujanensis (Desv.) Roem. & Schult., X: 10, 36
Cordia haenkeana Mez, XI: 179
Cordia hartwissiana Kuntze, VIII: 13
Cordia hassleriana Chodat, VIII: 15, 18
Cordia hebecarpa DC., VIII: 52; X: 21–22
Cordia hebeclada I. M. Johnst., XIX: 176–177
Cordia hermanniaefolia Cham., VIII: 30, 33
Cordia hermanniaefolia var. *calycina* Cham., VIII: 30, 33
Cordia heterophylla Poir., VIII: 52–53; X: 21–22, 26; XV: 347
Cordia hexandra Roem. & Schult., XX: 4
Cordia hintoni I. M. Johnst., XV: 338, 342–343, 345
Cordia hirsuta Fresen., VIII: 28
Cordia hirsuta Willd., VIII: 46; X: 13
Cordia hirta I. M. Johnst., X: 7, 28–29
Cordia hispida Benth., XVII: 99
Cordia hispidisssima DC., VIII: 46; X: 13
Cordia hookerianum (Kuntze) Gürke, XI: 174
Cordia humilis (Jacq.) Don, XVII: 98
Cordia hypoleuca DC., VIII: 15
Cordia hypoleuca f. *minor* Chodat, VIII: 15
Cordia ierensis Britton, VIII: 53; X: 25; XVIII: 127
Cordia iguaguana I. M. Johnst., XXII: 63–64
Cordia igualensis Bartlett, XIX: 180–181, 184
Cordia imparilis J. F. Macbr., XVII: 94, 99
Cordia indica Lam., XX: 8
Cordia inermis (Mill.) I. M. Johnst., XVII: 87, 95
Cordia inornata I. M. Johnst., XV: 337, 341–345
Cordia insignis Cham., VIII: 9–10, 13; XI: 179

Cordia insignis var. *glabrifolia* (Kuntze) I. M. Johnst., VIII: 11
Cordia insularis Greenm., XVII: 95
Cordia intermedia Fresen., VIII: 44, 46
Cordia interrupta DC., X: 36, 38; XVIII: 120
Cordia intonsa I. M. Johnst., VIII: 20, 26, 28
Cordia ipomoeaeflora Hook., VIII: 44
Cordia ixiocarpa F. Muell., XX: 8
Cordia jacmeliana E. H. L. Krause, XVII: 98
Cordia jamaicensis I. M. Johnst., XIX: 178–179
Cordia johnstonii Cufod., XV: 341
Cordia jucunda S. Moore, VIII: 11
Cordia kanehirai Hayata, XX: 3, 5, 8
Cordia laevifrons I. M. Johnst., X: 6, 16, 18, 20
Cordia laevigata Lam., XV: 349
Cordia laevigata of authors, XVIII: 125
Cordia laevior I. M. Johnst., XI: 180
Cordia lanceolata Humb., Bonpl. & Kunth, VIII: 32
Cordia lanceolatus J. Presl, XIX: 182
Cordia langlassei Loes., XIX: 182–183
Cordia lantanoides Spreng., VIII: 32; XXVIII: 290
Cordia lapensis Warm., VIII: 30, 33
Cordia lasiocalyx Pittier, XV: 339, 352–353
Cordia latifolia Cham., VIII: 51; XI: 178; XX: 10
Cordia latiloba I. M. Johnst., VIII: 9–10
Cordia lauta I. M. Johnst., XXVIII: 288
Cordia laxiflora Humb., Bonpl. & Kunth, XVII: 103
Cordia leptocaula Fresen., VIII: 59–60
Cordia leptopoda Krause, XV: 347
Cordia leucocalyx Fresen., VIII: 24–25
Cordia leucocephala Moric., VIII: 20, 24–25; XI: 177–178
Cordia leucomalla Taub., VIII: 20, 37
Cordia leucophlyctis Hook. f., XI: 175–176
Cordia limicola Brandegee, XVII: 86, 88–89
Cordia linearis A. DC., XVII: 99
Cordia linearis Hook. f., XI: 174
Cordia lineata (L.) Roem. & Schult., X: 36; XVII: 86, 90–93; XVIII: 118–119
Cordia linifolia Willd. ex Cham., XIX: 187
Cordia lippioides I. M. Johnst., XXVIII: 290
Cordia littoralis Pittier, XVII: 99, 102; XVIII: 120
Cordia lockartii Kuntze, VIII: 54–55; X: 23; XVIII: 124–125
Cordia lomatiloba I. M. Johnst., XII: 12
Cordia longifolia A. DC., VIII: 20, 23–24; XI: 177
Cordia longipeda Mez, VIII: 11
Cordia longituba Chodat, VIII: 12–13
Cordia loureiri Roem. & Schult., XX: 8
Cordia lowriana Brandis, XX: 8
Cordia lucida Splitg. ex Pulle, X: 39
Cordia lucidula I. M. Johnst., XV: 339, 352
Cordia lutea Lam., VIII: 40; X: 44; XXII: 65
Cordia macrantha S. F. Blake, XIX: 184
Cordia macrantha Chodat, VIII: 13; XIX: 184; XXII: 64
Cordia macrocephala (Desv.) Humb., Bonpl. & Kunth, VIII: 63; XVII: 89
Cordia macrophylla L., VIII: 47, 53; XV: 337, 347; XVIII: 126
Cordia macrophylla Vell., VIII: 50
Cordia macrostachia Select., X: 36
Cordia macrostachya (Jacq.) Roem. & Schult., VIII: 27; X: 8, 36, 38–39, 42; XVII: 99; XVIII: 120
Cordia magnoliaefolia Cham., VIII: 49, 60, 63
Cordia marchionica Drake, XXII: 65
Cordia martii DC., VIII: 11
Cordia martinicensis (Jacq.) Roem. & Schult., XVII: 99; XVIII: 113, 117, 120; XIX: 179
Cordia martinicensis sensu M. R. Schomb., X: 45
Cordia megalantha S. F. Blake, XIX: 180–181, 184
Cordia melanoneura (Klotzsch) I. M. Johnst., X: 30–31
Cordia mexiana I. M. Johnst., XII: 12
Cordia meziana Gürke, VIII: 63; XI: 174
Cordia micranthus Sw., XV: 345; XVIII: 123
Cordia micronesica Kaneh. & Hatus., XX: 5
Cordia mirabilloides Ham., VIII: 18
Cordia mirabiloides (Jacq.) Roem. & Schult., XVII: 88
Cordia miranda DC., VIII: 46; X: 13
Cordia mollis Pittier, XVII: 99
Cordia monosperma (Jacq.) Roem. & Schult., X: 34–35; XVIII: 119
Cordia morelosana Standl., XIX: 180–181, 183–185

Cordia mucronata Fresen., VIII: 42–43; XI: 173
Cordia mucronata Poir., X: 29–31
Cordia multispicata Cham., VIII: 20, 26–27, 29, 30; X: 2, 8, 43–44; XI: 178; XVII: 103
Cordia muluccana Roxb., XX: 4
Cordia munda I. M. Johnst., XXVIII: 290
Cordia muneco Humb., Bonpl. & Kunth, VIII: 55; X: 11
Cordia myxa L., VIII: 41–42; XV: 336; XVIII: 123; XX: 3, 7, 10
Cordia myxa sensu M. R. Schomb., X: 45
Cordia naidophila I. M. Johnst., X: 2, 7, 32; XII: 12
Cordia nelsonii I. M. Johnst., XIX: 180, 183
Cordia neowediana DC., VIII: 64; XI: 177
Cordia neowidiana Fresen., XI: 177
Cordia nervosa Lam., X: 6, 18–20
Cordia nesophila I. M. Johnst., XXVIII: 289
Cordia nettoana Taub., VIII: 11
Cordia nitida Vahl, XV: 351–352; XVIII: 125
Cordia nivea Fresen., VIII: 24–25
Cordia nodosa Lam., VIII: 46–47; X: 6, 13, 16; XVII: 105
Cordia nodosa var. *angustifolia* Fresen., VIII: 46; X: 14
Cordia nodosa var. *glabrior* Fresen., VIII: 46
Cordia nodosa var. *hispidissima* Fresen., VIII: 46; X: 13
Cordia oaxacana DC., XVII: 85–87, 94
Cordia obliqua Vell., VIII: 60
Cordia obliqua Willd., XVIII: 113, 122–123; XX: 10–11
Cordia obscura Cham., VIII: 57–58
Cordia obscura var. *glabrior* Cham., VIII: 57–58
Cordia obscura var. *magnifolia* Fresen., VIII: 57
Cordia obscura var. *tomentosa* Cham., VIII: 57–58
Cordia ochnacea DC., VIII: 50, 62
Cordia oncocalyx Allemão, VIII: 64
Cordia opaca Rusby, X: 26; XV: 337
Cordia orientalis R. Br., XX: 3
Cordia ovata Brandegee, XV: 347
Cordia oxyphylla DC., X: 36; XVIII: 120
Cordia palmeri Rose, XIX: 185
Cordia palmeri S. Watson, XVII: 99
Cordia panamensis L. Riley, XV: 337–338, 346–347; XVIII: 115, 126–127; XIX: 177
Cordia panicularis Rudge, X: 7, 26–27
Cordia paniculata Roth, XVIII: 118
Cordia paniculata Sessé & Moç., XV: 341; XVII: 105
Cordia paraguayiensis Chodat & Hassl., VIII: 30, 34
Cordia parvifolia A. DC., XV: 354; XVII: 85; XXII: 62–63
Cordia passa I. M. Johnst., XVI: 227; XVII: 88
Cordia patagonula Aiton, VIII: 64
Cordia patens Humb., Bonpl. & Kunth, VIII: 35–36; XVIII: 118–119
Cordia patens of Fresen., VIII: 35
Cordia patens sensu Pulle, X: 34
Cordia patens var. *angustifolia* Warm., VIII: 35
Cordia patens var. *monocephala* Cham., VIII: 35–36
Cordia patens var. *polycephala* Cham., VIII: 35–36
Cordia patens var. *polycephala* sensu Miq., X: 40
Cordia paucidentata Fresen., VIII: 20, 22–23, 64; XI: 176–178
Cordia paucidentata var. *subulata* Chodat & Hassl., VIII: 22
Cordia paucidentata var. *valenzuelensis* Chodat, VIII: 22
Cordia pauciflora DC. ex Ramirez, XVII: 106
Cordia pauciflora Rusby, XVII: 104
Cordia peruviana var. *mexicana* DC., XVII: 99
Cordia piauhiensis Fresen., VIII: 44
Cordia perlonga Fernald, XVII: 87–88
Cordia platyphylla Steud., VIII: 51
Cordia podocephala Torr., XVI: 228; XVII: 86, 88, 105–106
Cordia poeppigii DC., X: 41
Cordia poliophylla Fresen., VIII: 20, 24; XI: 177–178
Cordia polyantha Benth., XVII: 89
Cordia polycephala (Lam.) I. M. Johnst., X: 8, 33, 36; XVII: 90–93; XVIII: 112, 118–119
Cordia polystachya sensu M. R. Schomb., X: 40

Cordia polystachys Humb., Bonpl. & Kunth, X: 39
Cordia portoricensis Spreng., XIX: 178
Cordia pringlei B. L. Rob., XVII: 85–86, 89
Cordia pringlei var. *altatensis* Brandegee, XVII: 89
Cordia protracta I. M. Johnst., XV: 338, 349
Cordia prunifolia I. M. Johnst., XV: 339, 353–354
Cordia pubescens Willd. ex Roem. & Schult., VIII: 52; X: 21
Cordia pyrifolia Willd. ex Roem. & Schult., XVII: 104
Cordia reticulata Vahl, VIII: 48; XVIII: 125
Cordia retusa Vahl, XX: 17
Cordia revoluta Hook. f., XI: 174–175
Cordia riparia Humb., Bonpl. & Kunth, XVII: 103
Cordia ripicola I. M. Johnst., XI: 180
Cordia rotata Moç. ex DC., XVII: 107
Cordia rothii Roem. & Schult., XXVIII: 292
Cordia rothschuhii Loes., XIX: 182
Cordia rotundifolia Ruíz & Pav., VIII: 40–41
Cordia rufa Klotzsch ex M. R. Schomb., VIII: 21; X: 32–33
Cordia rufescens A. DC., VIII: 42, 44–45
Cordia rufescens var. *glabrata* Ces., VIII: 65
Cordia rugosa Willd. ex Roem. & Schult., XVIII: 120
Cordia rumphii Blume, XX: 4
Cordia rusbyi Chodat, VIII: 13
Cordia sagotii I. M. Johnst., X: 7, 27–29
Cordia salacina DC., VIII: 25
Cordia salacina sensu Gürke, X: 37
Cordia salicifolia Cham., VIII: 59–60
Cordia salvadorensis Standl., XII: 11; XV: 337, 340, 342
Cordia salvifolia Juss. ex Poir., XVIII: 112, 117; XXVIII: 289–290
Cordia salzmanii DC., VIII: 30, 33
Cordia salzmanii var. *lanceolata* Fresen., VIII: 30
Cordia sarmentosa Lam., VIII: 63; X: 44
Cordia scaberrima Humb., Bonpl. & Kunth, VIII: 32; XI: 176
Cordia scabrida Mart. ex Fresen., VIII: 50, 61–62; X: 30–31
Cordia scabrifolia A. DC., VIII: 49–50, 53, 57; X: 6, 22–23
Cordia scandens Poir., VIII: 52; X: 44
Cordia schomburgkii DC., X: 8, 39, 43–44; XVIII: 112, 119
Cordia schottiana Fresen., VIII: 44–46
Cordia scouleri Hook. f., XI: 175
Cordia sebestena Jacq., XVII: 106
Cordia sebestena L., VIII: 40–42; X: 4–5, 9; XV: 337, 347; XVIII: 111, 115; XX: 3–5
Cordia sellowiana Cham., VIII: 49–50, 56–59, 65
Cordia sellowiana Don, VIII: 50
Cordia sericicalyx A. DC., VIII: 49, 54–55; X: 7, 24–27; XV: 337, 347; XVIII: 115, 127; XXII: 64
Cordia sericicalyx sensu I. M. Johnst., X: 23
Cordia sericicalyx var. *latifolia* Miq., X: 25–26
Cordia serrata (L.) Gürke, VIII: 66
Cordia sessilifolia Cham., VIII: 21, 38–39
Cordia sessilifolia var. *macrantha* Cham., VIII: 22–23
Cordia sessilifolia var. *micrantha* Cham., VIII: 38
Cordia sessilifolia var. *tomentosa* (Chodat & Hassl.) I. M. Johnst., VIII: 39
Cordia setigera I. M. Johnst., XI: 176–177
Cordia silvestris Cham., VIII: 49, 61–62; X: 32
Cordia sinensis Lam., XX: 8, 11; XXVIII: 292–293
Cordia skutchii I. M. Johnst., XV: 337, 339–340
Cordia soccorensis Brandegee, XVII: 99
Cordia sonorae Rose, XIX: 180–181, 185
Cordia speciosa Willd., VIII: 40; X: 9
Cordia sphaerocephala Humb. ex Roem. & Schult., XVIII: 116
Cordia spicata Willd. ex Roem. & Schult., X: 39; XVIII: 120
Cordia spinescens L., XVII: 85, 87, 103–104, 106; XX: 12; XXVIII: 292
Cordia sprucei Mez, VIII: 49, 53, 56, 59, 61; X: 6, 13, 16–18, 20; XI: 180
Cordia stellata Greenm., XVII: 86, 89
Cordia stellifera I. M. Johnst., XV: 338, 346, 350

Cordia stenoclada I. M. Johnst., XV: 339, 353
Cordia storkii Standl., XVII: 89
Cordia striata Fresen., VIII: 24–25
Cordia suaveolens Blume, XX: 8
Cordia subcordata Lam., VIII: 41; XX: 2–4, 12
Cordia subopposita DC., XXVIII: 292
Cordia subtruncata Rusby, XVIII: 117
Cordia subvelutina I. M. Johnst., XV: 338, 342–345
Cordia sulcata DC., VIII: 53; XV: 337, 346–347; XVIII: 115, 126–127
Cordia sulfurata Krause, XVIII: 118
Cordia superba Cham., VIII: 41–46, 65
Cordia superba var. *cuneata* Cham., VIII: 44–45
Cordia superba var. *elliptica* Cham., VIII: 44–45
Cordia taghuayensis Vell., VIII: 42–44, 46, 65; XI: 174
Cordia tenuifolia Bertol., XV: 347
Cordia tetrandra Aubl., VIII: 47, 49, 55; X: 5, 11–13; XVIII: 113, 123
Cordia tetraphylla Aubl., VIII: 64; X: 44; XVIII: 113
Cordia thibaudiana DC., XVII: 104
Cordia thyrsiflora Siebold & Zucc., XX: 21
Cordia tinifolia Willd. ex Roem. & Schult., XIX: 181, 185–187
Cordia tobagensis Urb., X: 39; XVIII: 119
Cordia tobagensis var. *broadwayi* Urb., X: 39; XVIII: 119
Cordia tomentosa Cham., VIII: 15, 17–18; X: 38
Cordia tomentosa Lam. ex Roem. & Schult., X: 8, 38, 41–44; XX: 10
Cordia toqueve Aubl., VIII: 47, 49, 52–53, 59; X: 6, 13, 21–22; XV: 336, 347; XIX: 177
Cordia trachyphylla Mart., VIII: 49–50
Cordia tremula Griseb., XVIII: 122
Cordia trichoclada DC., VIII: 49–51; X: 20
Cordia trichostyla Pittier, VIII: 54–55; X: 23; XV: 349
Cordia trichotoma sensu Sandwith, X: 8–9
Cordia trichotoma (Vell.) Arrab. ex Steud., VIII: 9, 14–17
Cordia trichotoma f. *blancheti* (Chodat) I. M. Johnst., VIII: 17–18
Cordia trichotoma f. *puberula* (Kuntze) I. M. Johnst., VIII: 17–18
Cordia trichotoma f. *tomentosa* (Cham.) I. M. Johnst., VIII: 17–18
Cordia trichotoma f. *typica*, VIII: 17–18
Cordia truncata Fresen., VIII: 21, 39–40; XI: 178
Cordia ucayliensis I. M. Johnst., XI: 181
Cordia ulei I. M. Johnst., VIII: 49, 56–57, 59, 61; XI: 180–181
Cordia ulei var. *ucayliensis* I. M. Johnst., VIII: 57; XI: 181
Cordia ulmifolia (Juss.) DC., VIII: 30; X: 34–35; XVIII: 118
Cordia ulmifolia Spreng., X: 34; XVII: 90–91
Cordia ulmifolia var. *lineata* (L.) DC., XVII: 91
Cordia ulmifolia var. *ovata* DC., XVII: 118
Cordia ulmifolia var. *ovalis* DC., XVII: 118
Cordia umbraculifera DC., VIII: 55; X: 11, 13, 18
Cordia umbrosa Spruce ex Rusby, VIII: 46; X: 14
Cordia urticacea Standl., XVII: 87–88, 94
Cordia urticifolia Cham., VIII: 30, 34; XVIII: 119
Cordia uruguaya Arechav., VIII: 22–23
Cordia vargasii I. M. Johnst., XXVIII: 291–292
Cordia varronifolia I. M. Johnst., XXII: 62
Cordia velutina Mart., VIII: 13
Cordia venosa Hemsl., XX: 11
Cordia verbenacea DC., VIII: 20, 25, 27–29; X: 39; XI: 178–179
Cordia villicaulis Fresen., VIII: 39
Cordia villicaulis var. *tomentosa* Chodat & Hassl., VIII: 39
Cordia viridis (Rusby) I. M. Johnst., XXII: 64
Cordia volubilis Pittier, VIII: 46; X: 14
Cordia watsoni Rose, XV: 354; XVII: 85
Cordia weddellii I. M. Johnst., XI: 173
Cordia wickstroemii Steud., XVIII: 118–119
Cordia wickstroemii Steud. ex DC., XVIII: 118
Cordiada Vell., VIII: 8
Cordiada trichotoma Vell., VIII: 8, 15
Cordioideae, IV: 14–15; XIX: 176; XX: 1, 13
Cordiopsis Desv. ex Ham., VIII: 18; XVII: 86
Cornus gharaf Forssk., XXVIII: 292–293
Cornus sanguinea Forssk., XXVIII: 292–293
Cornus sanguinea L., XXVIII:
Cornutia cymosa Donn. Sm., XV: 346

Craniospermum Lehm., III: 58, 61; IV: 18; XXII: 75; XXVIII: 303, 306
Craniospermum sect. *Diploloma* Popov, XXVIII: 303
Craniospermum canescens DC., XXII: 75
Craniospermum echioides (Schrenk) Bunge, XXVIII: 302–303
Craniospermum mongolicum I. M. Johnst., XXII: 74–75; XXVIII: 302–303
Craniospermum parviflorum Decne., XXVIII: 305
Craniospermum subfloccosum Krylov., XXII: 75
Craniospermum subvillosum Lehm., XXII: 75; XXVIII: 303
Crataegus oxyacantha L., XX: 14
Crematonia guildingiana Miers, XVIII: 128
Cryptantha Lehm., I: 48, 52–57, 59, 61–6279; II: 3, 6, 45–46, 53; III: 58, 63–65, 75IV: 3–106; VI: 6, 25, 30–75, 78; IX: 7, 9, 11–12, 14, 53, 91; XI: 145, 168–173, 195–197; XII: 2; XIII: 383–398; XXIII: 306, 323; XXV: 288; XXVII: 158–159; XXIX: 290; XXXI: 161
Cryptantha sect. *Eucryptantha* Gürke, IV: 25; VI: 31, 39, 54–63, 73
Cryptantha sect. *Geocarya* I. M. Johnst., VI: 31, 37, 54, 63–73
Cryptantha sect. *Krynitzkia* (Fisch. & C. A. Mey) I. M. Johnst., VI: 31–54, 72, 75; XII: 23
Cryptantha sect. *Oreocarya* (Greene) I. M. Johnst., IX: 88; XII: 23; XXII: 73; XXXI: 160
Cryptantha sect. *Piptocalyx* I. M. Johnst., I: 55; IV: 26
Cryptantha sect. *Pterygium* Gürke, IV: 26
Cryptantha ser. *Affines* I. M. Johnst., IV: 101
Cryptantha ser. *Albidae* I. M. Johnst., IV: 42; VI: 32
Cryptantha ser. *Alyssoides* I. M. Johnst., VI: 63
Cryptantha ser. *Ambiguae* I. M. Johnst., IV: 72
Cryptantha ser. *Angustifoliae* I. M. Johnst., IV: 30; VI: 32
Cryptantha ser. *Barbigerae* I. M. Johnst., IV: 60; VI: 32–33, 75
Cryptantha ser. *Capituliflorae* I. M. Johnst., VI: 55
Cryptantha ser. *Circumscissae* I. M. Johnst., IV: 40
Cryptantha ser. *Dimorphae* I. M. Johnst., VI: 63, 66
Cryptantha ser. *Dolichophyllae* I. M. Johnst., VI: 64
Cryptantha ser. *Flaccidae* I. M. Johnst., IV: 97
Cryptantha ser. *Glomeratae* I. M. Johnst., VI: 55
Cryptantha ser. *Glomeruliferae* I. M. Johnst., VI: 54
Cryptantha ser. *Gnaphalioides* I. M. Johnst., VI: 32
Cryptantha ser. *Graciles* I. M. Johnst., IV: 88; VII: 75
Cryptantha ser. *Haplostachyae* I. M. Johnst., VI: 55
Cryptantha ser. *Leiocarpae* I. M. Johnst., IV: 91
Cryptantha ser. *Lineares* I. M. Johnst., VI: 64
Cryptantha ser. *Maritimae* I. M. Johnst., IV: 44
Cryptantha ser. *Mohavensis* I. M. Johnst., IV: 86
Cryptantha ser. *Muricatae* I. M. Johnst., IV: 69; XIII: 388
Cryptantha ser. *Phaceloides* I. M. Johnst., VI: 32
Cryptantha ser. *Pterocaryae* I. M. Johnst., IV: 49
Cryptantha ser. *Ramulosissimae* I. M. Johnst., IV: 89; VII: 75
Cryptantha ser. *Texanae* I. M. Johnst., IV: 54; VIII: 95; XXX: 22
Cryptantha ser. *Virentes* I. M. Johnst., VI: 64
Cryptantha abata I. M. Johnst., XVI: 240
Cryptantha abramsii I. M. Johnst., I: 52–53; IV: 27, 91, 97; XIII: 385
Cryptantha affinis (A. Gray) Greene, I: 60; IV: 7, 9–10, 13, 27, 86, 101; XI: 171
Cryptantha affinis var. *flexuosa* A. Nelson, IV: 79
Cryptantha albida (Humb., Bonpl. & Kunth) I. M. Johnston, I: 53, 55–56; IV: 9–13, 21–22, 29, 42, 44, 60; VI: 32, 37, 39; VII: 75; XI: 172; XXX: 18, 21; XXXI: 161
Cryptantha alfalfalis (Phil.) I. M. Johnst., VI: 55, 61
Cryptantha alyssoides (DC.) Reiche, VI: 63–64; XI: 169

Cryptantha ambigua (A. Gray) Greene, IV: 9, 11–13, 27, 30, 55–56, 73–74, 77, 83–86; XI: 171–172
Cryptantha ambigua f. *robustior* Brand, XI: 172
Cryptantha angelica I. M. Johnst., IV: 26, 28, 31, 33–34
Cryptantha angustifolia (Torr.) Greene, I: 56; IV: 11, 14, 20–21, 28, 31, 38, 40, 45; VI: 32, 40
Cryptantha aperta Payson, XIII: 391
Cryptantha aprica (Phil.) Reiche, VI: 64, 69–71; XI: 169–170
Cryptantha arenicola A. Heller, IV: 67
Cryptantha argentea I. M. Johnst., VI: 33, 42
Cryptantha argentinica Brand, IV: 44; VI: 38
Cryptantha axillaris Reiche, VI: 39
Cryptantha barbigera (A. Gray) Greene, IV: 12.14, 30, 60, 65–69, 74; XI: 171
Cryptantha barbigera var. *fergusonae* J. F. Macbr., IV: 63, 65–66
Cryptantha barbigera var. *inops* J. F. Macbr., IV: 67
Cryptantha barnebyi I. M. Johnst., XVI: 240–241
Cryptantha bartolomaei Greene, IV: 103; VII: 74–75
Cryptantha borchersii Hauman, VI: 53
Cryptantha bradburiana Payson, XIII: 392
Cryptantha brandegei I. M. Johnst., I: 53; IV: 27, 91, 96
Cryptantha buchtienii Brand, XI: 169
Cryptantha cajabambensis Brand, VI: 50
Cryptantha calycina (Phil.) Reiche, VI: 33, 48, 50
Cryptantha calycosa Rydb., IV: 79
Cryptantha calycotricha I. M. Johnst., VI: 55, 62
Cryptantha campylotricha Brand, VI: 72–73; XI: 170
Cryptantha candelabrum Brand, VI: 70; XI: 170
Cryptantha candolleana Brand, VI: 59; XI: 170
Cryptantha capitata (Eastw.) I. M. Johnst., XIV: 66
Cryptantha capituliflora (Clos) Reiche, VI: 54–57, 63, 68; XI: 171
Cryptantha capituliflora var. *compacta* Brand, XI: 170
Cryptantha carrizalensis Reiche, VI: 51
Cryptantha cedrosensis Greene, IV: 48
Cryptantha celosioides (Eastw.) Payson, IX: 89; XIII: 394–395
Cryptantha chaetocalyx (Phil.) I. M. Johnst., VI: 33, 43
Cryptantha chrysantha Reiche, VI: 66
Cryptantha circumscissa (Hook. & Arn.) I. M. Johnst., I: 55; IV: 7–10, 21, 29, 40–42; VII: 75; XI: 195; XIII: 382
Cryptantha circumscissa var. *genuina*, IV: 41
Cryptantha circumscissa var. *hispida* (J. F. Macbr.) I. M. Johnst., IV: 42
Cryptantha clandestina (Trev.) I. M. Johnst., XI: 195
Cryptantha clemensae Payson, XIII: 393
Cryptantha clevelandi Greene, I: 53; IV: 8, 12, 28, 91, 94–95, 97; XI: 171; XIII: 385, 387
Cryptantha clevelandi var. *florosa* I. M. Johnston, IV: 95, 97; XI: 172; XIII: 385
Cryptantha clevelandi var. *genuina*, IV: 95
Cryptantha clokeyi I. M. Johnst., XIII: 387–388
Cryptantha collina Reiche, VI: 81
Cryptantha confertiflora (Greene) Payson, XIII: 23; XIV: 66; XVI: 241
Cryptantha confusa Rydb., IV: 101; XI: 171
Cryptantha congesta DC., VI: 70
Cryptantha congesta Greene, VI: 59
Cryptantha congesta of Reiche, VI: 70
Cryptantha corollata (I. M. Johnst.) I. M. Johnst., XII: 24–25
Cryptantha coryi I. M. Johnst., XIII: 396–397
Cryptantha corymbosa I. M. Johnst., I: 54; VI: 96
Cryptantha costata Brandegee, IV: 11, 13, 26, 31, 35
Cryptantha crassisepala (Torr. & A. Gray) Greene, IV: 9–10, 12–13, 28, 55–60; XXX: 18–21
Cryptantha crassisepala var. *elachanthe* I. M. Johnst., XXX: 20–21
Cryptantha crassisepala var. *typica*, XXX: 20
Cryptantha crassipes I. M. Johnst., XIII: 397–398
Cryptantha crinata Greene, IV: 8, 11, 29, 73–74
Cryptantha crymophila I. M. Johnst., XIV: 65–66

Cryptantha cycloptera Greene, IV: 53
Cryptantha cynoglossoides (Phil.) (I. M. Johnst.), VI: 57, 64, 67–68
Cryptantha debilis (Phil.) Reiche, VI: 33, 53
Cryptantha decipiens (M. E. Jones) A. Heller, IV: 29–30, 60–61, 75; XII: 25
Cryptantha decipiens var. *corollata* I. M. Johnst., IV: 61; XI: 172; XII: 24
Cryptantha decipiens var. *genuina*, IV: 61
Cryptantha densiflora A. Nelson & P. B. Kenn., IV: 71
Cryptantha denticulata Greene, IV: 71
Cryptantha depressa A. Nelson, I: 55; IV: 41
Cryptantha dicarpa A. Nelson, IV: 59–60
Cryptantha dichita (Phil.) I. M. Johnst., VI: 32, 35–36
Cryptantha dichotoma I. M. Johnst., I: 55; IV: 42
Cryptantha diffusa (Phil.) I. M. Johnst., VI: 33, 49, 52–54; VII: 74; XI: 170–171
Cryptantha dimorpha (Phil.) Greene, VI: 63, 66
Cryptantha diplotricha (Phil.) Reiche, VI: 32–38; XI: 170–172
Cryptantha dissita I. M. Johnst., XIII: 383
Cryptantha divaricata Reiche, VI: 43
Cryptantha dolichophylla (Phil.) Reiche, VI: 64, 71
Cryptantha dumetorum Greene, IV: 8–12, 21, 28, 44–45, 68
Cryptantha echinella Greene, IV: 9, 12, 30, 73, 85; XI: 172
Cryptantha echinosepala J. F. Macbr., IV: 10, 28, 44–45
Cryptantha excavata Brandegee, IV: 29, 73–74
Cryptantha falcata (Hieron.) I. M. Johnst., I: 54; VI: 38
Cryptantha fallax Greene, IV: 104; VI: 69; VII: 75
Cryptantha fallax (Phil.) Reiche, VI: 69; XI: 170
Cryptantha famatinae Brand, VI: 53; XI: 171
Cryptantha fastigiata I. M. Johnst., XIII: 388, 390
Cryptantha fendleri (A. Gray) Greene, I: 56; IV: 7, 11, 13, 28, 89–91; XI: 171–172
Cryptantha filaginea (Phil.) Reiche, VI: 33, 46, 48
Cryptantha filiformifolia J. F. Macbr., IV: 40
Cryptantha filiformis (Phil.) Reiche, VI: 33, 42, 44
Cryptantha flaccida (Dougl.) Greene, IV: 8–10, 12–13, 27, 97–98, 101; XI: 171–172; XIII: 390
Cryptantha flexuosa A. Nelson, IV: 79
Cryptantha floribunda Reiche, VI: 51
Cryptantha foliosa Greene, IV: 7–8, 30, 60, 62
Cryptantha foliosa Reiche, VI: 59
Cryptantha ganderi I. M. Johnst., XIII: 386
Cryptantha gayi I. M. Johnst., VI: 37, 64, 70–71
Cryptantha geminata Greene, IV: 101–102
Cryptantha gilliesii Reiche, VI: 64
Cryptantha glareosa Greene, VI: 51
Cryptantha glareosa var. *longiseta* Reiche, VI: 59
Cryptantha globulifera (Clos) Reiche, VI: 33, 51, 53, 92; VII: 74; XI: 170–171
Cryptantha globulifera Skottsb., I: 76
Cryptantha glomerata Lehm., IV: 4; VI: 54–55, 58, 60–61; XI: 169–170, 172, 195–197
Cryptantha glomeriflora Greene, IV: 9–10, 13, 27, 101–102–103
Cryptantha glomerulifera (Phil.) I. M. Johnst., VI: 54–55, 73; XI: 169
Cryptantha gnaphalioides (A. DC.) Reiche, VI: 32–33
Cryptantha gracilis Osterh., IV: 14, 27, 50, 54, 88–90
Cryptantha gracilis Reiche, VI: 69
Cryptantha gracilis var. *hillmanii* Munz & I. M. Johnst., IV: 88
Cryptantha grahamii I. M. Johnst., XII: 23; XIII: 391; XVI: 241
Cryptantha grandiflora Rydb., IV: 76–77; XIV: 64–65
Cryptantha granulosa (Ruíz & Pav.) I. M. Johnst., I: 54; II: 46; III: 74–75; VI: 33, 44–45; XI: 172
Cryptantha grayi (Vasey & Rose) J. F. Macbr., IV: 39; VI: 32, 40
Cryptantha grayi (Vasey & Rose) I. M. Johnst., I: 56; IV: 7, 9, 13, 20–21, 29, 31, 34, 39
Cryptantha grayi var. *cryptochaeta* (J. F. Macbr.) I. M. Johnst., IV: 40
Cryptantha grayi var. *genuina*, IV: 39

Cryptantha grayi var. *nesiotica* I. M. Johnst., IV: 40
Cryptantha grisea Greene, IV: 76
Cryptantha gypsites I. M. Johnst., XXX: 17
Cryptantha hansenii Brand, XI: 173
Cryptantha hansenii var. *pulchella* Brand, XI: 173
Cryptantha haplostachya (Phil.) I. M. Johnst., VI: 55, 61, 63
Cryptantha heliotropioides Loes., I: 51; IV: 104
Cryptantha hendersoni (A. Nelson) Piper, IV: 8, 11–12, 27, 30, 65, 73–75, 77, 81, 85; IX: 81; XI: 172; XIII: 385; XIV: 65
Cryptantha hillmanii A. Nelson & P. B. Kenn., IV: 88
Cryptantha hirsutissima Greene, IV: 82
Cryptantha hispida (Phil.) Reiche, VI: 32, 35–37, 46; XI: 172; XXX: 21
Cryptantha hispidissima Greene, IV: 12, 28, 91–92, 95–96; XI: 172; XIII: 384–385, 391
Cryptantha hispidula Baker, XIII: 384
Cryptantha hispidula Greene ex Brand, XI: 172; XIII: 385–386
Cryptantha hispidula var. *abramsii* Brand, XIII: 385
Cryptantha hispidula var. *elmeri* Brand, XI: 172; XIII: 385
Cryptantha hispidula var. *euhispidula*, XIII: 384
Cryptantha hoffmannii I. M. Johnst., IX: 90
Cryptantha holoptera (A. Gray) J. F. Macbr., I: 55–56; IV: 6, 10–11, 13, 21, 26, 31–32, 54; XIII: 390
Cryptantha hooveri I. M. Johnst., XII: 23; XIII: 388
Cryptantha horridula Greene, IV: 70
Cryptantha hossei Brand, VI: 73; XI: 171
Cryptantha howellii A. Nelson, IV: 99
Cryptantha humilis (A. Gray) Payson, IX: 87–88
Cryptantha hypsophila I. M. Johnst., XIII: 395
Cryptantha inaequalis I. M. Johnst., IV: 26, 28, 31, 34; XIII: 390
Cryptantha incana Greene, IV: 76–77; XIV: 65
Cryptantha inconspicua Reiche, VI: 81
Cryptantha insolita (J. F. Macbr.) Payson, IX: 90
Cryptantha intermedia (A. Gray) Greene, IV: 8–10, 12–14, 29–30, 60–63, 65–69, 77, 86; XI: 173; XIII: 391
Cryptantha intermedia var. *johnstonii* J. F. Macbr., IV: 63, 66
Cryptantha involucrata (Phil.) Reiche, VI: 63, 65
Cryptantha jamesii (Torr.) Payson, XIII: 396, 398
Cryptantha jamesii var. *multicaulis* (Torr.) Payson, XIII: 397
Cryptantha jonesii Greene, IV: 71
Cryptantha kelseyana Greene, IV: 29, 55–57, 59, 85
Cryptantha kingi (Phil.) Reiche, VI: 64, 72–73; XI: 170
Cryptantha lappula Brand, XI: 194–195
Cryptantha latifolia I. M. Johnst., III: 73–75; VI: 45
Cryptantha leiocarpa (Fisch. & C. A. Mey.) Greene, I: 53, 56; IV: 9, 11, 13, 27, 78, 82, 91, 96–97, 103; XI: 171
Cryptantha leiocarpa var. *eremocaryoides* Brand, XI: 171
Cryptantha leiocarpa var. *hispidissima* J. F. Macbr., IV: 93
Cryptantha leptophylla Rydb., IV: 68
Cryptantha limensis (A. DC.) I. M. Johnst., II: 46; III: 74–75; VI: 33, 48; X: 172
Cryptantha linearis (Colla) Greene, IV: 20; VI: 63–64, 68–70; XI: 170
Cryptantha linearis var. *sericea* Reiche, VI: 69
Cryptantha longifolia (Phil.) Reiche, VI: 55, 57
Cryptantha lyallii Brand, XI: 171
Cryptantha macbridei I. M. Johnst., III: 74–75; VI: 48
Cryptantha macrocalyx (Phil.) Reiche, VI: 72; XI: 169
Cryptantha mariposae I. M. Johnst., IV: 9, 29, 73
Cryptantha maritima Greene, I: 56; IV: 7–9, 11–12, 21, 27–28, 44, 47–48
Cryptantha maritima var. *cedrocensis* (Greene) I. M. Johnst., IV: 48
Cryptantha maritima var. *genuina*, IV: 48–49
Cryptantha maritima var. *pilosa* I. M. Johnst., IV: 8, 48

Cryptantha mendocina I. M. Johnst., VIII: 94–95; XXX: 22
Cryptantha mexicana (Brandegee) I. M. Johnst., XXXI: 161–162
Cryptantha micrantha (Torr.) I. M. Johnst., I: 56; IV: 7–11, 13, 20, 21, 28–29, 36–37, 46; VI: 53
Cryptantha micrantha var. *genuina*, IV: 36
Cryptantha micrantha var. *lepida* (A. Gray) I. M. Johnst., I: 57; IV: 37
Cryptantha microcarpa Fisch. & C. A. Mey., IV: 4; VI: 59, 61; XI: 196
Cryptantha microcarpa var. *stricta* Reiche, VI: 59
Cryptantha micromeres (A. Gray) Greene, I: 55; IV: 9–10, 12, 28, 44, 46
Cryptantha micromeres var. *cryptochaeta* J. F. Macbr., IV: 40
Cryptantha microphylla Reiche, VI: 39–40
Cryptantha microstachys Greene, IV: 9–10, 12–13, 28, 91, 93, 96; XI: 171
Cryptantha milobakeri I. M. Johnst., XIV: 63–65
Cryptantha minima Rydb., IV: 9, 13, 22, 28, 55–60; VIII: 94; XXX: 19–22
Cryptantha minutiflora Brand, VI: 69
Cryptantha mirabunda Brand, XI: 172
Cryptantha mitis Reiche, VI: 44
Cryptantha modesta Brand, VI: 39; XI: 170; XVI: 240
Cryptantha modesta Payson, XVI: 240
Cryptantha mohavensis Greene, IV: 11–12, 28, 86–87, 104; VI: 32; VII: 75
Cryptantha monosperma Greene, IV: 76–77
Cryptantha multicaule Howell, IV: 99
Cryptantha multicaulis A. Nelson, IV: 84
Cryptantha muricata (Hook. & Arn.) A. Nelson & J. F. Macbr., I: 56; IV: 7, 9, 11–12, 29, 51, 70–72, 74
Cryptantha muricata var. *denticulata* (Greene) I. M. Johnst., IV: 71–72, 74
Cryptantha muricata var. *genuina*, IV: 70, 72, 74
Cryptantha muricata var. *jonesii* (A. Gray) I. M. Johnst., IV: 71–72; XI: 173
Cryptantha muriculata Greene, IV: 70, 104
Cryptantha muriculata var. *montana* A. Nelson, IV: 69
Cryptantha nemaclada Greene, IV: 27, 91, 94
Cryptantha nevadensis A. Nelson & P. B. Kenn., IV: : 30, 61, 65, 67, 69; XI: 171; XIII: 388
Cryptantha nevadensis var. *genuina*, IV: 67–69
Cryptantha nevadensis var. *rigida* I. M. Johnst., IV: 68; XIII: 388
Cryptantha nubigena (Greene) Payson, IX: 89; XIII: 392–395; XIV: 66
Cryptantha oblata (M. E. Jones) Payson, XIII: 392, 398; XXXI: 160
Cryptantha oligantha Reiche, VI: 51
Cryptantha oxygona (A. Gray) Greene, IV: 10, 26, 49–51, 87, 103
Cryptantha palmeri (A. Gray) Payson, XIII: 396–398
Cryptantha parviflora (Phil.) Reiche, VI: 32, 39, 41, 48
Cryptantha parvula (Phil.) Brand, XI: 171
Cryptantha patagonica (Speg.) I. M. Johnst., I: 54; VI: 33, 49
Cryptantha pattersoni (A. Gray) Greene, IV: 27–28, 55–56, 85
Cryptantha patula Greene, IV: 9, 29, 60, 62; VII: 75
Cryptantha paysonii (J. F. Macbr.) I. M. Johnst., XXXI: 160
Cryptantha peruviana I. M. Johnst., III: 74–75; VI: 33, 50; VII: 74
Cryptantha phaceloides (Clos) Reiche, IV: 20; VI: 32, 36–37, 72; XI: 169
Cryptantha philippiana Brand, VI: 59–60; XI: 172
Cryptantha piscoensis Brand, VI: 40–41
Cryptantha polycarpa Greene, IV: 84
Cryptantha pondii Greene, IV: 62; VII: 74–75
Cryptantha pterocarya Frye & Rigg, IV: 52
Cryptantha pterocarya (Torr.) Greene, I: 55; IV: 8–11, 13–14, 27, 31, 49–52, 59; XIII: 391
Cryptantha pterocarya var. *cycloptera* (Greene) J. F. Macbr., IV: 52–54
Cryptantha pterocarya var. *genuina*, IV: 52
Cryptantha pterocarya var. *stenoloba* I. M. Johnst., XIII: 391
Cryptantha pumila A. Heller, IV: 80
Cryptantha pusilla (Torr. & A. Gray) Greene, I: 56; IV: 10, 13, 26, 29, 31, 34, 59; VI: 40

Cryptantha quentinensis J. F. Macbr., IV: 63, 65
Cryptantha racemosa (S. Wats.) Greene, I: 55; IV: 6–7, 11, 21, 26, 28, 30, 32–34, 49; XIII: 388–390
Cryptantha racemosa var. *lignosa* I. M. Johnst., IV: 32–33
Cryptantha ramosa Greene, I: 53; IV: 43; VI: 37
Cryptantha ramosissima Greene, IV: 49
Cryptantha ramulosissima A. Nelson, IV: 90
Cryptantha rattani Greene, IV: 95; XI: 172; XIII: 390
Cryptantha recurvata Coville, I: 55; IV: 10–11, 30, 44
Cryptantha rigida Reiche, VI: 61
Cryptantha rollinsii I. M. Johnst., XIII: 391, 393; XVI: 241
Cryptantha romanii I. M. Johnst., VI: 33, 46; XI: 172
Cryptantha rostellata Greene, I: 60; IV: 7–8, 27, 97–98
Cryptantha rugulosa (Payson) Payson, XXII: 73
Cryptantha scabrella Piper, IV: 76–77
Cryptantha scoparia A. Nelson, IV: 30, 61, 69
Cryptantha seleri Brand, VI: 40
Cryptantha seorsa J. F. Macbr., IV: 36
Cryptantha sheldonii Payson, XIII: 391, 394–395
Cryptantha simulans Greene, IV: 8–9, 11, 14, 30, 73, 82, 83, 86; XI: 172–173
Cryptantha sobolifera Payson, XIII: 391
Cryptantha sparsiflora Greene, IV: 10, 27, 97, 100
Cryptantha spathulata (Phil.) Reiche, VI: 55, 57
Cryptantha spegazzinii I. M. Johnst., I: 54; VI: 100
Cryptantha spithamaea I. M. Johnst., XIII: 385
Cryptantha steubelii Brand, XI: 173
Cryptantha subamplexicaulis (Phil.) Reiche, VI: 33, 41–42
Cryptantha submollis Coville, IV: 50
Cryptantha subretusa I. M. Johnst., XIII: 393–395
Cryptantha suffruticosa Piper, IV: 32
Cryptantha suksdorfii Piper, IV: 98
Cryptantha talquina (Phil.) Brand, XI: 169
Cryptantha taltalensis I. M. Johnst., VI: 33, 45–46, 48
Cryptantha texana (A. DC.) Greene, IV: 12–13, 22, 30, 55–56; VII: 77; XXX: 21
Cryptantha thompsonii I. M. Johnst., IX: 88–90; XIII: 399
Cryptantha torreya Rydb., I: 71
Cryptantha torreyana (Gray) Greene, IV: 9, 11, 13, 22, 27, 73, 77–78, 82–83, 85–86, 101, 104; XI: 171–172
Cryptantha torreyana var. *calistogae* I. M. Johnst., IV: 80, 82
Cryptantha torreyana var. *calycosa* A. Gray, IV: 79
Cryptantha torreyana var. *genuina*, IV: 78
Cryptantha torreyana var. *grandiflora* A. Nelson & J. F. Macbr., IV: 76
Cryptantha torreyana var. *pumila* (A. Heller) I. M. Johnst., IV: 80, 82
Cryptantha torreyi Rydb., IV: 104
Cryptantha traskae, IV: 30, 73, 77
Cryptantha trifurca Rydb., IV: 76–77; XIV: 65
Cryptantha umbelliformis Brand, VI: 40
Cryptantha utahensis (A. Gray) Greene, IV: 10–11, 26, 29, 49, 54, 103; XI: 172
Cryptantha vinctens A. Nelson & J. F. Macbr., IV: 87–88
Cryptantha vidali Reiche, VI: 59; XI: 170
Cryptantha virens Reiche, VI: 72
Cryptantha virgata (Porter) Payson, XXII: 73
Cryptantha vitrea Eastw., IV: 71
Cryptantha volckmanni (Phil.) I. M. Johnst., VI: 63, 66
Cryptantha watsoni (A. Gray) Greene, IV: 12, 28, 50, 86–88, 90; XI: 171
Cryptantha weberbaueri Brand, VI: 50
Cryptantha weberi I. M. Johnst., XXII: 72–73
Cryptantha wedermanniana I. M. Johnst., VII: 73
Cryptantha wigginsii I. M. Johnst., XIII: 387
Cryptantha woitschachii Brand, VI: 48
Cryptantha wyomingensis Gand., IV: 90
Cryptanthe globulifera Skottsb., I: 76
Cryptanthe ramosa, I: 53
Cryptantheae Brand, VI: 25
Ctenospermum T. Post & Kuntze, VI: 113

Cynoglosseae DC., I: 44; II: 5; III: 42, 44, 57, 60, 65, 69–73, 76; IV: 14–18; V: 44; VI: 106–118; XVI: 235; XXVII: 158, 160–161
Cynoglossospermum (Siegesb.) Kuntze, III: 60
Cynoglossospermum capituliflorum Kuntze, VI: 56
Cynoglossospermum humile Kuntze, VI: 50, 85
Cynoglossospermum uliginosum Kuntze, VI: 94
Cynoglossum, II: 5, 31–34; III: 69, 71–72; IV: 18; V: 44; VI: 5, 107–113; XI: 205; XXVII: 159; XXIX: 283
Cynoglossum alatum Molina, II: 33; VI: 110
Cynoglossum amplexicaule Michx., II: 34
Cynoglossum andicolum K. Krause, I: 46; 103–104
Cynoglossum austinae Eastw., II: 33
Cynoglossum azocarti Phil., II: 33; VI: 111–112
Cynoglossum berteri Colla, II: 45; VI: 106
Cynoglossum boreale Fernald, II: 32, 34
Cynoglossum cavalerieri H. Lév., XII: 25
Cynoglossum ciliatum Douglas, I: 46
Cynoglossum coelestinum Lindl., XXIX: 283
Cynoglossum congestum Poepp., VI: 59
Cynoglossum creticum Mill., II: 32–33; VI: 107–108
Cynoglossum decurrens Ruíz & Pav., II: 33; VI: 110
Cynoglossum decurrens var. *limense* DC., II: 33; VI: 110
Cynoglossum deflexum Roth, I: 45
Cynoglossum dunnianum Diels, V: 44; XII: 25
Cynoglossum fiebrigii K. Krause, I: 46; VI: 103, 105
Cynoglossum furcatum Wall., II: 33; VI: 109
Cynoglossum glochidiatum Wall., I: 45; II: 32
Cynoglossum grande Douglas, II: 32–33
Cynoglossum grande var. *laeve* A. Gray, II: 33
Cynoglossum howardii A. Gray, II: 52
Cynoglossum humifusum Poepp., VI: 97
Cynoglossum laeve A. Gray, II: 33
Cynoglossum lateriflorum Lam., II: 35; VI: 117
Cynoglossum laxum G. Don, I: 45
Cynoglossum limense Willd., II: 32–33; III: 77; VI: 107; 109–111
Cynoglossum lineare Ruíz & Pav., II: 36; VI: 116
Cynoglossum linifolium L., II: 39
Cynoglossum lucidum Stokes, II: 34
Cynoglossum mexicanum Schltdl. & Cham., I: 46; VI: 104
Cynoglossum molle Phil., II: 33; VI: 108
Cynoglossum morisoni DC., I: 45
Cynoglossum nutallii Spreng., II: 37, 48; IX: 92
Cynoglossum occidentale A. Gray, II: 32–33
Cynoglossum officinale L., II: 31–32; VI: 108
Cynoglossum ovatifolium Griseb., I: 46; VI: 103, 105
Cynoglossum paniculatum Hook. & Arn., II: 32–33; VI: 107, 111–112
Cynoglossum paniculatum f. *azocarti* Brand, II: 33; VI: 111
Cynoglossum paniculatum var. *azocarti* Reiche, II: 33; VI: 111
Cynoglossum paniculatum f. *philippianum* Brand, II: 33; VI: 111
Cynoglossum parvifolium K. Krause, I: 46; VI: 103–104
Cynoglossum pauciflorum Ruíz & Pav., VI: 73
Cynoglossum penicillatum Hook. & Arn., II: 37
Cynoglossum pictum Sol., II: 33; VI: 108
Cynoglossum pilosum Nutt., II: 37, 48; IX: 92
Cynoglossum pilosum Ruíz & Pav., II: 35; VI: 117
Cynoglossum pringlei Greenm., II: 31–32
Cynoglossum revolutum Ruíz & Pav., I: 45; VI: 103–104
Cynoglossum roylei Wall., I: 45
Cynoglossum rugosum Willd. ex Roem. & Schult., XXV: 271
Cynoglossum sessiliflorum Poepp. ex DC., VI: 96
Cynoglossum thomsoni (C. B. Clarke) I. M. Johnst., III: 72
Cynoglossum trianaeum Wedd., II: 32–33; III: 77; VI: 107, 112
Cynoglossum uncinatum Royle, I: 45
Cynoglossum uncinatum var. *laxiflora* Benth., I: 45
Cynoglossum virginianum L., II: 32–34
Cynoglossum virginicum L., II: 33
Cynoglossum viride Eastw., II: 32–33
Cynoglossum wallichii G. Don., II: 31–32
Cynoglossum zeylanicum (Vahl) Thunb., II: 31, 33; VI: 107, 109

Cyphomattia Boiss., III: 72
Cyphomattia lanata Boiss., XI: 194
Cyphorima Raf., II: 18; VI: 7; XXVI: 59
Cyphorima angustifolia Nieuwl., II: 24
Cyphorima decumbens Raf., II: 25
Cyphorima latifolia (Michx.) Raf., II: 26; XXIII: 342
Cyphorima linearifolia Lunell, II: 25
Cyphorima longiflora Raf., II: 24
Cyphorima lutea Raf., II: 26; XXIII: 342
Cyphorima mandensis Lunell, II: 25
Cyrilla racemifera DC., VIII: 65
Cystostemon Balf. f., III: 44, 46; XXVI: 4, 71–73, 75; XXVII: 158–161, 164
Cystostemon socotranus Balf. f., III: 46; XXVI: 71

Dasynotis I. M. Johnst., XVI: 233–236
Dasynotis daubenmirei I. M. Johnst., XVI: 234
Dichapetalum scandens (Poir.) I. M. Johnst., X: 44
Dichapetalum vestitum var. *scandens* (Benth.) Baill., X: 44
Dioclea Spreng., III: 48; XXIII: 326; XXVI: 51
Dioclea hispidissima (Sieber) Spreng, XXIII: 325
Diploloma Schrenk, XXVIII: 303
Diploloma echioides Schrenk, XXVIII: 302
Diploma Schrenk, III: 61
Dipteracanthus viscidulus Nees, VIII: 46
Downingia Torr., IX: 18

Echidiocarya A. Gray, I: 57–58, 61–62, 64; VI: 76; VII: 79; IX: 9, 12–13
Echidiocarya arizonica A. Gray, I: 57, 73
Echidiocarya californica A. Gray, I: 57, 73
Echidiocarya ursina A. Gray, I: 74
Echieae DC., III: 43–44
Echinoglochin Brand, VI: 76; IX: 7, 12–13
Echinoglochin acanthocarpa Brand, IX: 33
Echinoglochin austinae Brand, IX: 36
Echinoglochin cristata Brand, IX: 36
Echinoglochin eastwoodae Brand, IX: 33
Echinoglochin echinacea Brand, IX: 13, 33
Echinoglochin greenei Brand, IX: 13, 31
Echinoglochin hystricula Brand, IX: 32
Echinoglochin oligochaeta Brand, IX: 33
Echinospermum Sw., I: 44–45, 47; III: 60, 67; IV: 5; VI: 101
Echinospermum brachycentrum var. *brachystylum* A. Gray, II: 48
Echinospermum californicum A. Gray, I: 47
Echinospermum calycosum K. Schum., IX: 93
Echinospermum ciliatum A. Gray, I: 46
Echinospermum collinum K. Schum., IX: 93
Echinospermum coronatum K. Schum., IX: 92
Echinospermum cupulatum K. Schum., II: 49; IX: 91
Echinospermum deflexum Lehm., I: 45
Echinospermum deflexum var. *americanum* A. Gray, I: 45
Echinospermum deflexum var. *pumilum* Ledeb., XIV: 54
Echinospermum desertorum K. Schum., IX: 93
Echinospermum diffusum Lehm., I: 47–48
Echinospermum diffusum var. *hispidum* A. Gray, I: 46
Echinospermum floribundum Lehm., I: 46, 48
Echinospermum fremontii Torr., II: 48; IX: 95
Echinospermum glochidiatum DC., I: 45
Echinospermum glochidiatum var. *laxiflorum* DC., I: 45
Echinospermum gracile Lehm., II: 36; VI: 116; VII: 81
Echinospermum greenei A. Gray, I: 76; IX: 31
Echinospermum heterospermum K. Schum., IX: 91
Echinospermum hispidum A. Gray, I: 46
Echinospermum lappula Lehm., II: 47
Echinospermum leiocarpum Fisch. & C. A. Mey., IV: 91–92
Echinospermum mexicanum Hemsl., I: 46
Echinospermum montanum K. Schum., IX: 93
Echinospermum nervosum Kell., I: 47
Echinospermum occidentale K. Schum., IX: 93
Echinospermum patagonicum Speg., II: 49; VI: 102; IX: 93
Echinospermum patulum Lehm., II: 49
Echinospermum pilosum Buckley, II: 49; IX: 93
Echinospermum pinetorum Greene, I: 45
Echinospermum redowskii var. *cupulatum* A. Gray, II: 49, 50, 51; IX: 91
Echinospermum redowskii var. *occidentale* S. Watson, II: 48; IX: 93

Echinospermum redowskii var. *strictum* S. Watson, II: 49–50; IX: 93
Echinospermum scabrosum Buckley, II: 49; IX: 91
Echinospermum strictum Nees, II: 49–51; IX: 93
Echinospermum subdecumbens Parry, I: 46–47
Echinospermum texanum Scheele, II: 49; IX: 91
Echinospermum thymifolium A. DC., XIV: 54
Echinospermum ursinum Greene, I: 46
Echinospermum virginicum Lehm., I: 45
Echinospermum zeylanicum Lehm., VI: 109
Echiochilon Desf., III: 44–45, 49–50; IV: 19; XXIV: 1; XXV: 268; XXVI: 37; XXVII: 158–160, 163; XXIX: 255–256; 260–293
Echiochilon adenophorum I. M. Johnst., XXIX: 264, 267–269, 276–278, 286, 290, 293
Echiochilon albidum (Franch.) I. M. Johnst., XXIX: 264, 270, 285–286, 292
Echiochilon arabicum (O. Schwartz) I. M. Johnst., XXIX: 264, 271, 286, 289, 292–293
Echiochilon arenarium (Vatke) I. M. Johnst., XXIX: 264, 267–268, 270, 280–281, 292
Echiochilon chazaliei (Boissieu) I. M. Johnst., III: 50; XXIX: 261, 264, 266–269, 274–275, 277
Echiochilon collenettei I. M. Johnst., XXIX: 264, 267, 269, 276–277, 286, 293
Echiochilon cryptocephalum (Baker) I. M. Johnst., III: 50
Echiochilon fruticosum Desf., III: 49–50; XXIX: 261, 264–265, 267–269, 277–278, 280
Echiochilon fruticosum var. *marginatum* F. Buxb., XXIX: 278, 280
Echiochilon fruticosum var. *sieberi* I. M. Johnst., XXIX: 279–280
Echiochilon hispidissima Tausch, XXIII: 325
Echiochilon jugatum I. M. Johnst., XXIX: 264–265, 270, 282–284, 293
Echiochilon kotschyi (Boiss.) I. M. Johnst., XXIX: 264–265, 270, 283–284, 289
Echiochilon lithospermoides (S. Moore) I. M. Johnst., III: 50; XXIX: 264–265, 267, 269, 272, 275, 277
Echiochilon longiflorum Benth., III: 50; XXIX: 264–265, 267–269, 271–272, 274, 277, 290
Echiochilon nubicum I. M. Johnst., XXIX: 264, 271, 290
Echiochilon persicum (Burm. f.) I. M. Johnst., XXIX: 264–265, 270, 284, 288–289, 291, 293
Echiochilon somalense (Franch.) I. M. Johnst., III: 50; XXIX: 271
Echiochilon strigosum (Deflers) I. M. Johnst., XXIX: 264, 266, 270, 282, 286–287, 290, 293
Echiochilon thesingeri I. M. Johnst., XXIX: 264–265, 271, 283, 290–293
Echiochilon vatkei (Baker) I. M. Johnst., XXIX: 264–265, 270, 284, 286, 290, 292
Echiochilon verrucosum (Beck) I. M. Johnst., XXIX: 264, 271, 278, 284–287, 291–293
Echiochilopsis Caball., XXIX: 261
Echiochilopsis coerulea Caball., XXIX: 261, 274
Echioides Desf., III: 57
Echioides Ortega, XXIII: 314–315; XXVI: 3, 53–54, 57–59, 61–63; XXVII: 158–160, 164–165
Echioides asperrima (Delile) Rothm., XXIII: 325
Echioides bungei (Boiss.) Rothm., XXIII: 326
Echioides decumbens (Vent.) Rothm., XXIII: 322
Echioides fimbriopetalum (Stocks) Rothm., XXIII: 326
Echioides griffithii (Boiss.) Rothm., XXIII: 326
Echioides linearifolium (DC.) Rothm., XXIII: 328
Echioides longiflorum (G. Koch) I. M. Johnst., XXVI: 58
Echioides nigricans Desf., II: 7
Echioides obovatum (Bunge) Rothm., XXIII: 329
Echioides tinctorium (Forssk.) Rothm., XXIII: 321
Echioides violacea Desf., III: 55
Echiopsis Rchb., XXV: 293
Echiostachys Levyns, XXV: 293, 296
Echium L., II: 4, 9–10; III: 44–45, 49–51; VI: 5–6, 20; XXI: 219; XXIII: 303; XXIV: 1; XXV: 259, 278, 280, 283–293, 295–299; XXVI: 9, 75; XXVII: 158–164; XXIX: 264–265
Echium sect. *Eleutherolepis* Coincy, XXV: 283
Echium sect. *Gamolepis* Coincy, XXV: 283
Echium sect. *Pachylepis* Coincy, XXV: 283
Echium sect. *Synlobus* DC., XXV: 294

Echium sect. *Trichobasis* DC., XXV: 293
Echium acutissimum (H. Buek) I. M. Johnst., III: 51
Echium albicans Boiss., XXV: 283
Echium angustifolium Lam., XXV: 283
Echium arenarium Guss., XXV: 288, 290
Echium australe Coincy, II: 10
Echium benthami Wall., XXIII: 333; XXVI: 56
Echium bonariensis Poir., II: 10; VI: 21
Echium buekii I. M. Johnst., III: 51
Echium candicans L., XXV: 283, 291
Echium capitiforme (DC.) I. M. Johnst., III: 51
Echium capitatum L., XXV: 293
Echium caudatum Thunb., XXV: 293
Echium cephaloideum (DC.) I. M. Johnst., III: 52
Echium cinereum (DC.) I. M. Johnst., III: 52
Echium coincyaneum Lacaita, II: 10
Echium collinum Salisb., III: 52
Echium connatum H. Lév., XII: 21
Echium curvifolium (H. Buek), III: 52
Echium decaisnei Webb, III: 50; XXV: 289
Echium diversifolium (H. Buek) I. M. Johnst., III: 52
Echium echioides (Lehm.) I. M. Johnst., III: 52
Echium ecklonianus H. Buek., XXV: 293
Echium elongatum Lam., III: 51
Echium exasperatum Webb. ex Coincy, XXV: 292
Echium fastigiatum (H. Buek) I. M. Johnst., III: 52
Echium ferox Pers., XXV: 293
Echium formosum Pers., III: 51; XXV: 293–294
Echium fruticosum Pers., XXV: 293
Echium galpinii (C. H. Wright) I. M. Johnst., III: 52
Echium giganteum L., XXV: 283, 289, 292
Echium glaucophyllum Jacq., XXV: 293
Echium hispidissimum R. Lit., XXV: 295
Echium humile Desf., III: 55
Echium incanum Thunb., XXV: 293
Echium italicum L., III: 43; XXV: 283, 288, 290
Echium laevigatum L., XXV: 293
Echium longiflora Bertol., XXV: 272
Echium longiflorum Sessé & Moç., II: 13; XVII: 109; XXVI: 17
Echium microphyllum (H. Buek) I. M. Johnst., III: 52
Echium nervosum Aiton, XXV: 289
Echium nitidum (Bolus) I. M. Johnst., III: 52
Echium obovatum (DC.) I. M. Johnst., III: 52
Echium obtusifolium (DC.) I. M. Johnst., III: 52
Echium oederiaefolium (DC.) I. M. Johnst., III: 52
Echium onosmaefolium Webb. & Berth., XXV: 288
Echium orientale L., XXV: 283, 285, 292–293
Echium paniculaeforme (DC.) I. M. Johnst., III: 52
Echium parviflorum Moench, XXV: 283, 288, 290
Echium petraeum Tratt., XXV: 273
Echium pilicaule (C. H. Wright) I. M. Johnst., III: 52
Echium pineana Webb & Berthel, III: 50
Echium plantagineum L., II: 9–10; VI: 20–22; XXV: 288, 290, 292
Echium pomponium Boiss., XXV: 285, 293
Echium pubiflorum (C. H. Wright) I. M. Johnst., III: 52
Echium pustulatum Sibth. & Sm., II: 10
Echium pyrenicum L., XXV: 283
Echium rauwolfii Delile, XXV: 292–293
Echium rubrum Jacq., III: 51; XXV: 283, 293, 298–299
Echium sanguineum (Schltr.) I. M. Johnst., III: 52
Echium schlechter I. M. Johnst., III: 52
Echium simplex DC., XXV: 289, 293
Echium spicatum Burm. f., XXV: 293
Echium stachydeum (DC.) I. M. Johnst., III: 52
Echium stenosiphon Webb, XXV: 288
Echium strictum L., XXV: 291
Echium violaceum of authors, II: 10; VI: 21
Echium violaceum var. *medium* Kuntze, VI: 21
Echium virgatum (Buek) I. M. Johnst., III: 52
Echium vulgare L., II: 10; VI: 20–21; XXIV: 4; XXV: 283, 291
Echium vulgare var. *pustulatum* (Sibth. & Sm.) Coincy, II: 10
Echium webbii Coincy, XXV: 292
Echium wurmbii (DC.) I. M. Johnst., III: 52
Ectemis Raf., VIII: 40
Eddya Torr. & A. Gray, II: 57–58
Eddya gossypina Wooton & Standl., XXXI: 158

Ehretia L., XX: 1, 12, 15, 17, 19
Ehretia sect. *Bourrerioides* DC., XX: 19
Ehretia sect. *Euehretia*, XX: 19
Ehretia acanthophora DC., XVIII: 128
Ehretia acuminata R. Br., XX: 19, 23, 24
Ehretia acuminata sensu auct. pl., XX: 21
Ehretia acuminata var. *grandifolia* Pampanini, XX: 21
Ehretia acuminata var. *obovata* (Lindl.) I. M. Johnst., XX: 21, 23–24
Ehretia acuminata var. *pilosula* (F. Muell.) I. M. Johnst., XX: 24
Ehretia acuminata var. *polyantha* (DC.) I. M. Johnst., XX: 24
Ehretia acuminata var. *pyrifolia* (Don) I. M. Johnst., XX: 23–24
Ehretia acuminata var. *serrata* (Roxb.) I. M. Johnst., XX: 23–24
Ehretia acuminata var. *typica*, XX: 24
Ehretia anacua (Berland.) I. M. Johnst., XVII: 105–106
Ehretia argyi H. Lev., XX: 21
Ehretia aspera Roxb., XX: 19
Ehretia asperula Zoll. & Moritzi, XX: 20, 106–107
Ehretia bourreria L., XV: 345; XVIII: 123
Ehretia buxifolia Roxb., XX: 17
Ehretia buxifolia var. *heterophylla* (Spreng.) Gagnep. & Courchet, XX: 17
Ehretia buxifolia var. *latisepala* Gagnep., XX: 17
Ehretia buxifolia var. *microphylla* (Lam.) DC., XX: 17
Ehretia calophylla A. Rich., XVII: 107
Ehretia canarensis Miq., XX: 109
Ehretia confinis I. M. Johnst., XX: 20, 103
Ehretia corylifolia C. H. Wright, XX: 19, 24–26, 101
Ehretia cuneifolia Sessé & Moç., XVII: 107
Ehretia cuneifolia C. H. Wright, XX: 15
Ehretia dentata Courchet, XX: 17
Ehretia dichotoma Blume, XX: 20, 109
Ehretia dicksonii Hance, XX: 19, 99, 101–102
Ehretia dicksonii var. *glabrescens* Nakai, XX: 100–102
Ehretia dicksonii var. *japonica* Nakai, XX: 99, 101
Ehretia dicksonii var. *liukiuensis* Nakai, XX: 99
Ehretia dicksonii var. *tilioides* I. M. Johnst., XX: 101–102
Ehretia dicksonii var. *typica*, XX: 100, 102
Ehretia dicksonii var. *velutina* Koidzumi, XX: 99
Ehretia dunniana H. Lev., XX: 20, 104, 106
Ehretia exsucca Bertero ex Griseb., XVII: 107
Ehretia formosana Hemsl., XX: 103
Ehretia glaucescens Hayata, XX: 105
Ehretia hainanensis I. M. Johnst., XX: 20, 108
Ehretia hanceana Hemsl., XX: 106–107
Ehretia heterophylla (Cav.) Spreng., XX: 17
Ehretia javanica Blume, XX: 106
Ehretia kantonensis Masam., XX: 21
Ehretia laevis Roxb., XX: 20, 107–109
Ehretia laevis var. *canarensis* (Miq.) C. B. Clarke, XX: 109
Ehretia laevis var. *playtphylla* Merr., XX: 107
Ehretia laevis var. *timorensis* (Decne.) C. B. Clarke, XX: 109
Ehretia lancifolia Sessé & Moç., XVII: 106–107
Ehretia longiflora Champ., XX: 20, 104–106
Ehretia macrophylla sensu Shiras., XX: 99
Ehretia macrophylla Wall., XX: 25, 101
Ehretia macrophylla var. *tomentosa* Gagnep. & Courchet, XX: 99
Ehretia microphylla Lam., XX: 17
Ehretia navesii Vidal, XX: 103
Ehretia ovalifolia Hassk., XX: 21
Ehretia pilosula F. Muell., XX: 24
Ehretia polyantha DC., XX: 24
Ehretia pyrifolia D. Don, XX: 23
Ehretia resinosa Hance, XX: 19, 103
Ehretia serrata Roxb., XX: 23
Ehretia serrata sensu Shiras., XX: 21
Ehretia serrata var. *obovata* Lindl., XX: 21
Ehretia taiwaniana Nakai, XX: 21
Ehretia thyrsiflora (Siebold & Zucc.) Nakai, XX: 21
Ehretia thyrsiflora var. *latifolia* Nakai, XX: 21
Ehretia timorensis Ridl., XX: 109
Ehretia tinifolia L., XX: 19
Ehretia tsangii I. M. Johnst., XX: 20, 104
Ehretia viminea Wall., XX: 15

Ehretia volubilis Hand.-Mazz., XX: 104
Ehretia wallichiana Hook. f. & Thomson ex C. B. Clarke, XX: 106
Ehretioideae DC., IV: 14–17; XIX: 175–176; XX: 1, 13; XXVI: 68–69
Eliopia riparia Raf., VII: 19
Eliopia serrata Raf., VII: 19
Elizaldia Willk., III: 53, 56
Elizaldia heterostemon (Murb.) I. M. Johnst., III: 56
Elizaldia nonneoides Willk., III: 56
Elizaldia phanaranthera (Viv.) I. M. Johnst., III: 56
Elizaldia violacea (Desf.) I. M. Johnst., III: 56
Endogonia Lindl., III: 59
Ephedra L., IV: 6
Eremocarya Greene, I: 54, 56; II: 45; IV: 6–7, 19, 21, 26; VI: 31
Eremocarya lepida Greene, I: 57; IV: 37
Eremocarya micrantha Torr., I: 56; IV: 36
Eremocarya micrantha var. *lepida* Greene, I: 57; IV: 37
Eremocarya muricata Rydb., I: 56; IV: 37
Eritrichieae Gürke, I: 48; II: 5, 46; III: 42, 45, 55, 57–69, 72; IV: 3, 14–17; VI: 24–25, 106; VII: 82; XVI: 235–236; XXVI: 48; XXVII: 158, 161
Eritrichium Schrad., I: 43–44, 57; II: 751–53; III: 57–59, 61, 63–67; IV: 5–6, 20, 25; V: 42; VI: 25, 105; VII: 83; IX: 81; XIII: 399; XIV: 52–53; XVI: 235–236
Eritrichium sect. *Amblynotus* A. DC., III: 64
Eritrichium sect. *Coloboma* DC., I: 43
Eritrichium sect. *Cryptantha* A. DC., IV: 5, 25
Eritrichium sect. *Krynitzkia* A. Gray, IV: 25
Eritrichium sect. *Piptocalyx* A. Gray, IV: 25
Eritrichium sect. *Plagiobothrys* A. Gray, I: 57
Eritrichium sect. *Pseudokrynitzkia* A. Gray, IV: 6
Eritrichium sect. *Rutidocaryum* DC., IV: 5, 25
Eritrichium acaule W. W. Smith, XIV: 53
Eritrichium albiflorum (Banks & Sol.) Griseb., I: 79–80; II: 41, 53; VI: 27–28, 91
Eritrichium affine Phil., VI: 69
Eritrichium alfalfalis Phil., VI: 61
Eritrichium alyssoides DC., VI: 64
Eritrichium angustifolium Torr., IV: 38
Eritrichium apricum Phil., VI: 70
Eritrichium aretioides (Cham.) DC., II: 51–52
Eritrichium aretioides var. *elongatum* Rydb., II: 52
Eritrichium argenteum W. Wight, II: 53
Eritrichium armeriifolium Phil., VI: 82
Eritrichium asperum Phil., I: 70; VI: 59–60, 78
Eritrichium australasicum A. DC., I: 75; III: 68; VII: 78, 80
Eritrichium axillare Phil., VI: 39
Eritrichium barbigerum A. Gray, IV: 66–67
Eritrichium borchersii Phil., VI: 53
Eritrichium bracteatum Phil., I: 80; VI: 91
Eritrichium brevipes Maxim., XII: 6
Eritrichium bridgesii Phil., VI: 70
Eritrichium calandrinioides Phil., I: 80; VI: 91
Eritrichium californicum DC., I: 78; IX: 79
Eritrichium californicum var. *subglochidiatum* A. Gray, I: 79; IX: 38, 41, 61
Eritrichium calycinum Phil., VI: 49
Eritrichium canescens A. Gray, I: 71
Eritrichium canescens var. *arizonicus* A. Gray, I: 70
Eritrichium capituliflorum Clos, VI: 56, 63
Eritrichium carrizalense Phil., VI: 51
Eritrichium cephalanthum Phil., VI: 56
Eritrichium chaetocalyx Phil., VI: 43
Eritrichium chamissonis DC., II: 52
Eritrichium chorisianum DC., I: 77; IX: 48
Eritrichium chrysanthum Phil., VI: 66
Eritrichium cinereum Phil., I: 80; VI: 93
Eritrichium circumscissum A. Gray, I: 55; IV: 41
Eritrichium clandestinum A. DC., VI: 59
Eritrichium clandestinum var. *angustifolium* A. DC., VI: 59
Eritrichium clandestinum var. *decumbens* A. DC., VI: 59
Eritrichium clossii Phil., VI: 70
Eritrichium collinum Phil., VI: 81
Eritrichium congestum A. DC., VI: 59; XI: 170
Eritrichium connatifolium Kellog, I: 77; IX: 48
Eritrichium cooperi A. Gray, I: 78; IX: 54
Eritrichium crassisepalum Torr. & A. Gray, IV: 59; XXX: 18–20
Eritrichium cryptanthum A. DC., VI: 59
Eritrichium cynoglossoides Phil., VI: 68
Eritrichium dauricum Brand, XIV: 53
Eritrichium debile Phil., VI: 54
Eritrichium delicatulum Phil., I: 80; VI: 91

Eritrichium densiflorum Duthie, III: 66; XIV: 51
Eritrichium denudatum Phil., VI: 70
Eritrichium dichita Phil., VI: 35
Eritrichium diffusum Dusén, I: 80; VI: 50, 52–53
Eritrichium dimorphum Phil., VI: 67
Eritrichium diplasianthum Phil., VI: 59–60
Eritrichium diplotrichum, VI: 39
Eritrichium diplotrichum var. *humilis* Phil., VI: 39
Eritrichium diplotrichum var. *humilis* Reiche, VI: 39
Eritrichium divaricatum Phil., VI: 43
Eritrichium dolichophyllum Phil., VI: 71
Eritrichium elongatum (Rydb.) W. Wight, II: 51–52; XVI: 236; XXII: 68
Eritrichium elongatum var. *argenteum* (W. Wight) I. M. Johnst., II: 51–52; XXII: 68
Eritrichium elongatum var. *paysoni* I. M. Johnst., XXII: 67
Eritrichium falcatum Hieron., I: 54; VI: 38
Eritrichium fallax Phil., VI: 69
Eritrichium filagineum Phil., VI: 47
Eritrichium filiforme Phil., VI: 44
Eritrichium flavicans Phil., I: 80; VI: 91
Eritrichium floribundum Phil., VI: 51
Eritrichium floribundum Torr., I: 51
Eritrichium foliosum Phil., VI: 59–60
Eritrichium fruticosum Phil., VI: 34
Eritrichium fulvocanescens A. Gray, IX: 88
Eritrichium fulvum A. DC., I: 70; VI: 78
Eritrichium fulvum var. *pinguis* Phil., VI: 78
Eritrichium gayanum Wedd., VI: 10; XXIII: 362
Eritrichium germaini Phil., I: 75; VI: 83
Eritrichium gilliesi Phil., VI: 64
Eritrichium glabratum Phil., VI: 74; VII: 29
Eritrichium glareosa Greene, VI: 51
Eritrichium globuliferum Clos, VI: 51
Eritrichium globuliferum var. Phil., VI: 53
Eritrichium glomeratum var. *fulvocanescens* S. Watson, IX: 88
Eritrichium glomeratum var. *humile* A. Gray, IX: 87–88
Eritrichium glomeruliferum Phil., VI: 55
Eritrichium gnaphalioides A. DC., VI: 34
Eritrichium gracile Phil., VI: 69
Eritrichium graminifolium Phil., I: 80; VI: 91
Eritrichium haplostachyum Phil., VI: 62
Eritrichium heliotropioides Torr., I: 51
Eritrichium himorddo Phil., VI: 67
Eritrichium hispidum Buckley, I: 53; IV: 43; VI: 38; XXX: 21
Eritrichium hispidum Phil., VI: 36
Eritrichium hispidum var. *leiocarpum* Kuntze, IV: 89–90
Eritrichium holopterum A. Gray, IV: 31
Eritrichium holopterum var. *submolle* A. Gray, IV: 50
Eritrichium howardi (A. Gray) Rydb., II: 51–52
Eritrichium humile A. DC., I: 75; VI: 85, 92
Eritrichium humile var. *capitatum* Clos, I: 78; VI: 96
Eritrichium humile var. *congestum* Wedd., I: 75; VI: 85–86
Eritrichium illapelinum Phil., I: 80; VI: 89
Eritrichium inconspicum Phil., VI: 81
Eritrichium intermedium A. Gray, IV: 63
Eritrichium involucratum Phil., VI: 65
Eritrichium kingi Phil., VI: 72
Eritrichium kingii A. Watson, I: 68; VI: 72
Eritrichium laxiflorum Phil., I: 70; VI: 78
Eritrichium laxum I. M. Johnst., XXII: 66
Eritrichium leiocarpum S. Watson, IV: 92
Eritrichium lignosum Phil., VI: 70
Eritrichium limense A. DC., II: 46; VI: 48
Eritrichium limonium Phil., I: 80; VI: 93
Eritrichium lineare DC., VI: 69; XI: 170
Eritrichium lineare var. *sericeum* A. DC., VI: 69
Eritrichium linifolium Wedd., I: 74; VI: 88
Eritrichium longifolium Phil., VI: 57
Eritrichium longisetum Phil., VI: 51, 59–60
Eritrichium macrocalyx Phil., VI: 72–73
Eritrichium mandonii Ball, II: 44; VI: 100
Eritrichium mesembryanthemoides Speg., I: 79; V: 42; VI: 97
Eritrichium micranthum Phil., VI: 53
Eritrichium micranthum Torr., I: 56; IV: 6, 36; VI: 53
Eritrichium micranthum var. *lepidum* A. Gray, IV: 37
Eritrichium microcarpum (Wall.) DC., XII: 8
Eritrichium micromeres A. Gray, IV: 47
Eritrichium microphyllum Phil., VI: 39–40

Eritrichium minutiflorum Phil., VI: 69
Eritrichium mite Phil., VI: 44
Eritrichium molle A. Gray, I: 74; IX: 25
Eritrichium munroi C. B. Clarke, III: 66; V: 46; XIV: 52
Eritrichium muricatum A. DC., I: 79; VI: 98
Eritrichium muriculatum A. DC., IV: 70
Eritrichium muriculatum of Torr., IV: 84
Eritrichium muriculatum var. *ambigum* A. Gray, IV: 84–85
Eritrichium nanum (All.) Schrad., II: 52
Eritrichium nanum var. *aretioides* Herder, II: 52
Eritrichium namum var. *chamissonis* Herder, II: 52
Eritrichium nemorosum A. DC., XXVIII: 305
Eritrichium nothofulvum A. Gray, I: 70
Eritrichium nubigenum Phil., VI: 91
Eritrichium obovatum DC., III: 64; XIV: 54
Eritrichium oliganthum Phil., VI: 51
Eritrichium oppositifolium Phil., I: 80; VI: 92
Eritrichium ovalifolium DC., XXVIII: 305
Eritrichium oxycarpum A. Gray, IV: 99
Eritrichium oxygonum A. Gray, IV: 51
Eritrichium pachnophilum Wedd., VI: 100
Eritrichium pampeanum Speg., II: 53; V: 42; VI: 28
Eritrichium parviflorum Phil., VI: 39, 51
Eritrichium parvulum, VI: 50
Eritrichium pedicellare Phil., I: 75; VI: 95; XII: 8
Eritrichium pedunculare DC., II: 46; XII: 8
Eritrichium phaceloides Clos, VI: 36–37
Eritrichium phaceloides A. Gray, VI: 72
Eritrichium plebeium A. DC., I: 77
Eritrichium plebejum var. *tenue* Herder, III: 68; VII: 80
Eritrichium polycaule Phil., I: 80; VI: 91
Eritrichium pratense Reiche, VI: 97
Eritrichium procumbens DC., I: 80; VI: 89, 92
Eritrichium pterocaryum Torr., IV: 52
Eritrichium pterocaryum var. *pectinatum* A. Gray, IV: 52, 54
Eritrichium pulchellum Phil., I: 80; VI: 93
Eritrichium pusillum Torr. & A. Gray, IV: 35
Eritrichium pustulatum C. B. Clarke, III: 62
Eritrichium pustulosum Phil., VI: 43
Eritrichium pugae Phil., VI: 80
Eritrichium pygmaeum C. B. Clarke, III: 64; XIV: 52
Eritrichium pygmaeum Wedd., I: 74; VI: 87
Eritrichium racemosum S. Watson, IV: 6, 32
Eritrichium ramosum A. DC., I: 53; IV: 43; VI: 37
Eritrichium rengifoanum Phil., I: 70; VI: 70; XI: 169
Eritrichium riae Winkl., III: 64
Eritrichium rigidum Phil., VI: 61
Eritrichium rupestris (Pall.) Bunge, II: 51
Eritrichium scouleri A. DC., I: 75; IX: 51
Eritrichium sessiliflorum A. DC., I: 75; VI: 96
Eritrichium spathulatum C. B. Clarke, VI: 58
Eritrichium spathulatum Phil., VI: 58
Eritrichium sphaerophorum Phil., VI: 51
Eritrichium splendens Kearney, II: 51
Eritrichium strictum Decne., I: 44; VI: 59
Eritrichium strictum Phil., VI: 59–61
Eritrichium subamplexicaule Phil., VI: 41
Eritrichium talquinum Phil., VI: 64
Eritrichium tenellum A. Gray, I: 72
Eritrichium tenuicaule Phil., I: 80; VI: 89
Eritrichium tenuifolium Phil., I: 78; VI: 96
Eritrichium tenuifolium var. *longipes* Phil., I: 78; VI: 95
Eritrichium tenuifolium var. *pulchellum* Phil., VI: 94
Eritrichium texanum A. DC., IV: 56
Eritrichium thompsoni (C. B. Clarke) I. M. Johnst., XIV: 53
Eritrichium tibeticum C. B. Clarke, V: 48
Eritrichium tibeticum var. *minor* C. B. Clarke, V: 48
Eritrichium tinctorium A. DC., I: 71; VI: 80
Eritrichium torreyi A. Gray, I: 71; IV: 104
Eritrichium uliginosum Phil., I: 80; VI: 92, 94
Eritrichium uspallatense Phil., VI: 68
Eritrichium vernum Phil., I: 80; VI: 91
Eritrichium verrucosum Phil., I: 71; VI: 79–80
Eritrichium vidali Phil., VI: 59–60
Eritrichium virens Phil., VI: 72
Eritrichium volckmanni Phil., VI: 66
Eritrichium walpersii Wedd., I: 74; VI: 84
Eritrichum Schrad., II: 51
Eritrichum diffusum Phil., VI: 52–53
Euploca Nutt., VII: 46
Euploca albiflora (Raf.) I. M. Johnst., II: 53

Euploca aurea Rose & Standl., IX: 83
Euploca convolvulacea Nutt., II: 53; VII: 46
Euploca racemosa Rose & Standl., XII: 19
Evolvulus madagascariensis Vatke, VIII: 91
Exarrhena R. Br., III: 62
Exioxylon Raf., III: 49; XXIX: 261

Firensia Scop., VIII: 63; X: 44
Firensia hirsuta Raf., VIII: 46; X: 13
Firensia lutea Raf., VIII: 64; X: 45
Frankenia glabrata Phil., II: 61
Friedrichsthalia Fenzl, III: 70

Galapagoa Hook. f., II: 57–58
Galapagoa darwinii Hook. f., II: 57, 59–60
Galapagoa fusca Hook. f., II: 59–60
Gastrocotyle Bunge, III: 55
Gerascanthus P. Browne, III: 77–78; VIII: 8, 14
Gerascanthus aspera Mart., VIII: 10
Gerascanthus excelsa Mart., VIII: 15
Gerascanthus foliis ovato-oblongis, utrinque productis racemis terminalibus P. Browne, XIX: 182
Gerascanthus glabrata Mart., VIII: 11
Gerascanthus lanceolatus J. Presl, XIX: 182
Gerascanthus velutina Mart. ex Fresen., VIII: 13
Gerascanthus vulgaris Mart., VIII: 13
Glyptocaryopsis Brand, IX: 7, 12–13
Glyptocaryopsis anaglyptica Brand, IX: 33
Glyptocaryopsis distantiflora Brand, IX: 37
Glyptocaryopsis glyptocarpa Brand, IX: 13, 37
Glyptocaryopsis microcarpa Brand, IX: 13, 33
Glyptocaryopsis papillata Brand, IX: 33
Glyptocaryopsis spiculifera Brand, IX: 13, 33
Greeneocharis Gürke & Harms, I: 55; II: 45; IV: 6–7, 20, 26; VI: 31
Greeneocharis circumscissa Rydb., I: 55; IV: 41
Greeneocharis circumscissa var. *hispida* J. F. Macbr., I: 55; IV: 42
Greeneocharis dichotoma J. F. Macbr., I: 55; IV: 42
Gruvelia A. DC., II: 34; VI: 113
Gruvelia pusilla A. DC., II: 38; VI: 114
Gruvelia setosa Rydb., II: 38
Gustavia brasiliana DC., VIII: 53
Gymnoleima Decne., III: 55; XXV: 264, 268, 270–271

Hackelia Opiz, I: 43–48; II: 7, 45, 53; III: 58, 60–61; IV: 18; VI: 5, 25, 102–105; XIII: 398; XVI: 235–236; XXV: 286; XXVII: 159
Hackelia arida (Piper) I. M. Johnst., I: 48
Hackelia arida var. *cusickii* (Piper) I. M. Johnst., I: 48
Hackelia bella (J. F. Macbr.) I. M. Johnst., I: 47
Hackelia brachytuba (Diels) I. M. Johnst., XII: 25; XXVIII: 304
Hackelia caerulescens (Rydb.) Brand, XI: 194
Hackelia californicum (A. Gray) I. M. Johnst., I: 47
Hackelia ciliata (Douglas) I. M. Johnst., I: 46
Hackelia cinerea (Piper) I. M. Johnst., I: 46
Hackelia costaricensis (Brand) I. M. Johnst., I: 46; VI: 103
Hackelia deflexa (Wahlenb.) Opiz, I: 44–45; XIV: 54
Hackelia deflexa var. *pumila* Brand, XIV: 54
Hackelia dielsii (Brand) I. M. Johnst., I: 45; XII: 25
Hackelia diffusa (Lehm.) I. M. Johnst., I: 48
Hackelia diffusa var. *caerulescens* (Rydb.) I. M. Johnst., I: 48; XI: 194
Hackelia echinocarya I. M. Johnst., XIV: 54–55
Hackelia eastwoodae I. M. Johnst., I: 47
Hackelia floribunda (Lehm.) I. M. Johnst., I: 46–47; VI: 105; XVI: 238
Hackelia gracilenta (Eastw.) I. M. Johnst., I: 46
Hackelia grisea (Wooton & Standl.) I. M. Johnst., XI: 194
Hackelia guatemalensis Brand, XVI: 238
Hackelia hirsuta (Wooton & Standl.) I. M. Johnst., I: 47
Hackelia hispida (A. Gray) I. M. Johnst., I: 46
Hackelia leonotis I. M. Johnst., XVI: 238–239
Hackelia leptophylla (Rydb.) I. M. Johnst., I: 46–7
Hackelia longituba I. M. Johnst., XVI: 237
Hackelia macrophylla (Brand) I. M. Johnst., I: 45; XXVIII: 304

Hackelia mexicana (D. F. K. Schltdl. & Cham.) I. M. Johnst., I: 46; XVI: 238
Hackelia micrantha (Ledeb.) Opiz, I: 47
Hackelia minima Brand, XIV: 53
Hackelia nelsonii Brand, XI: 194
Hackelia nervosa (Kellog) I. M. Johnst., I: 47
Hackelia patens (Nutt.) I. M. Johnst., XI: 194
Hackelia pinetorum (Greene) I. M. Johnst., I: 45
Hackelia revoluta (Ruíz & Pav.) I. M. Johnst., I: 45–46; VI: 103
Hackelia roylei (Wall.) I. M. Johnst., I: 45
Hackelia setosa (Piper) I. M. Johnst., I: 46
Hackelia sharsmithii I. M. Johnst., XIII: 398–399
Hackelia skutchii I. M. Johnst., XVI: 238, 240
Hackelia stewartii I. M. Johnst., XXVIII: 303–304
Hackelia stricta I. M. Johnst., XVI: 238
Hackelia thymifolia (A. DC.) I. M. Johnst., XIV: 54–55
Hackelia uncinata (Benth.) Fisch., XXVIII: 304
Hackelia ursina (Greene) I. M. Johnst., I: 46
Hackelia velutina (Piper) I. M. Johnst., I: 47; XVI: 237–238
Hackelia virginiana (L.) I. M. Johnst., I: 45; II: 55
Halacsya Dorfl., III: 49; XXIII: 303; XXV: 258, 269, 275–279, 285, 292; XXVI: 22, 32; XXVII: 158–161, 165
Halacsya sendtneri (Boiss.) Dorfler, XXV: 276
Harpagonella A. Gray, II: 5, 40; III: 65, 69, 76; IV: 16; V: 45; XIII: 401
Harpagonella palmeri A. Gray, II: 40; III: 76
Harpagonella palmeri var. *arizonica* I. M. Johnst., III: 75
Harpagonelleae Gürke, II: 5; III: 65
Havilandia Stapf, III: 67–69; VII: 82; XI: 192; XIV: 59–62; XXII: 69
Havilandia borneensis Stapf, III: 68; VII: 82; XI: 191; XIV: 63
Havilandia opaca I. M. Johnst., XI: 190–191; XIV: 62
Havilandia papuana Hemsl., VII: 82; XI: 191; XIV: 59, 63
Havilandia robusta I. M. Johnst., XI: 191; XIV: 60, 62
Heliocarya Bunge, III: 70; XXVII: 159, 163
Heliocarya monandra Bunge, III: 70
Heliophytum DC., VII: 21
Heliophytum sect. *Coeloma* DC., VII: 5
Heliophytum anchusaefolium DC., VII: 21
Heliophytum anchusaefolium var. *angustifolium* DC., VII: 22
Heliophytum anchusaefolium var. *latifolium* DC., VII: 21
Heliophytum brachystachyum DC., VII: 12
Heliophytum chenopodiaceum A. DC., VII: 29
Heliophytum crispulum Fresen., VII: 71
Heliophytum elongatum DC., VII: 18
Heliophytum floridum A. DC., VII: 37
Heliophytum floridum var. *bridgesii* DC., VII: 26
Heliophytum foetidum Salzm. ex DC., VII: 11–12
Heliophytum indicum DC., VII: 19; X: 59
Heliophytum lithospermifolium DC., VII: 21
Heliophytum molle Torr., XIII: 375
Heliophytum monostachyum DC., VII: 5, 7
Heliophytum monostachyum var. *ovatum* Fresen., VII: 7
Heliophytum nicotianaefolium DC., VII: 24
Heliophytum odorum Fresen., VII: 71
Heliophytum parviflorum DC., VII: 10
Heliophytum passerinoides Klotzsch, VII: 71; X: 61–62
Heliophytum persicariaefolium DC., VII: 7
Heliophytum phylicioides DC., VII: 23
Heliophytum portoricense Bello, VII: 11
Heliophytum rosmarinifolium Bertero ex DC., VII: 33
Heliophytum sidaefolium DC., VII: 24
Heliophytum stenophyllum DC., VII: 33
Heliophytum stenophyllum var. *myosotifolium* A. DC., VII: 31
Heliophytum stenophyllum var. *rosmarinifolium* DC., VII: 33
Heliophytum tiaridioides DC., VII: 6
Heliotropioideae Gürke, IV: 14–17; VIII: 66; XIX: 175–176; XX: 2, 13; XXVI: 68–69
Heliotropium L., I: 49; II: 45, 54; IV: 15–16; VII: 3–73; VIII: 66, 73–74, 92; X: 3, 56–64; XI: 161, 163, 168, 186–187; XII: 13–21; XIII: 375–379; XVIII: 111, 133–138; XIX: 175; XX: 2, 12, 110,

118; XXIII: 351; XXVI: 23, 68; XXIX: 267, 281; XXX: 15
Heliotropium * * * *Heliophytum* Cham., VII: 21
Heliotropium sect. *Cochranea* (Miers) Reiche, VII: 5–6, 21, 25, 30, 38; XIII: 379
Heliotropium sect. *Coeloma* (DC.) I. M. Johnst., VII: 4–6, 10, 12; XXX: 13–14
Heliotropium sect. *Halmyrophila* I. M. Johnst., VII: 5–6, 16; XXX: 14
Heliotropium sect. *Heliophytum* (Cham.) Griseb., VII: 4–6, 18, 21, 25, 38
Heliotropium sect. *Heliothamnus* I. M. Johnst., VII: 5–6, 38
Heliotropium sect. *Hypsogenia* I. M. Johnst., VII: 4, 6, 10, 12, 14, 16
Heliotropium sect. *Messerschmidia* Gürke, VIII: 74
Heliotropium sect. *Orthostachys* R. Br., VII: : 5–6, 46–47, 72; VIII: 73, 90; XIII: 376–377; XX: 110
Heliotropium sect. *Orthostachys* subsect. *axillaria* I. M. Johnst., VII: 47–48; VIII: 90–92
Heliotropium sect. *Orthostachys* subsect. *bracteata* I. M. Johnst., VII: 47–49
Heliotropium sect. *Orthostachys* subsect. *ebracteata* I. M. Johnst., VII: 47–48
Heliotropium sect. *Plagiomeris* I. M. Johnst., VII: 5–6, 16
Heliotropium sect. *Schobera* (Scop.) I. M. Johnst., VII: 4, 6, 10, 12, 14
Heliotropium sect. *Scopiurus* Kuntze, VII: 18
Heliotropium sect. *Tiaridium* (Lehm.) DC., VII: 4, 6, 18; XX: 110
Heliotropium abbreviatum Rusby, VII: 12, 14
Heliotropium adenogynum I. M. Johnst., VII: 39, 42, 44
Heliotropium albo-hispidum Baker, VIII: 92; XXIX: 291
Heliotropium americanum Mill., VII: 71; VIII: 89
Heliotropium amplexicaule Vahl, VII: 21, 23–24
Heliotropium anchusaefolium Poir., VII: 21
Heliotropium anchusaefolium var. *angustifolium* Griseb., VII: 22
Heliotropium anchusaefolium var. *angustifolium* f. *grandiflorum* Kuntze, VII: 22
Heliotropium anchusaefolium var. *angustifolium* f. *medium* Kuntze, VII: 22
Heliotropium anchusaefolium var. *latifolium* Kuntze, VII: 21–22
Heliotropium anchusaefolium var. *latifolium* f. *grandiflorum* Kuntze, VII: 22
Heliotropium anchusaefolium var. *latifolium* f. *parviflorum* Kuntze, VII: 22
Heliotropium anchusaefolium var. *lithospermifolium* Griseb., VII: 21
Heliotropium andersonii B. L. Rob., VII: 48, 57
Heliotropium andinum Rusby, VII: 58
Heliotropium angiospermum Murray, VII: 10, 71; X: 64; XI: 186–187; XII: 18; XVII: 107; XVIII: 134, 137–138
Heliotropium angustifolium Raf., XXX: 13
Heliotropium angustifolium Torr., VII: 58; XII: 16, 18; XVI: 230; XXX: 13
Heliotropium anomalum Hook. & Arn., XII: 21
Heliotropium anomalum var. *argenteum* A. Gray, XII: 21
Heliotropium anomalum var. *mediale* I. M. Johnst., XII: 21
Heliotropium antillanum Urb., VII: 48, 50–51; VIII: 91
Heliotropium arborescens L., VII: 38–39, 41, 46; XII: 15; XX: 110
Heliotropium arborescens var. *genuinum*, VII: 40
Heliotropium arborescens var. *grisellum* I. M. Johnst., VII: 40
Heliotropium arenarium F. Muell., XXIX: 280
Heliotropium arenarium Vatke, VIII: 92–93; XXIX: 280
Heliotropium argenteum Lehm., VII: 39, 42
Heliotropium asperrimum Andersson, VII: 57
Heliotrpoium assurgens I. M. Johnst., XIII: 375–376; XVI: 231; XVII: 107
Heliotropium auratum Phil., VII: 60
Heliotropium baclei DC., VIII: 91
Heliotropium baclei var. *rostratum* I. M. Johnst., VIII: 91
Heliotropium bahiense DC., VII: 63
Heliotropium bangii Rusby, VII: 13

Heliotropium barbatum DC., VII: 48, 54
Heliotropium bolivianum Rusby, VII: 22
Heliotropium brachystachyum Griseb., VII: 12–13
Heliotropium brasilianum Roth, VII: 72; VIII: 89
Heliotropium breanum Phil., VII: 35
Heliotropium brevifolium Phil., VII: 35
Heliotropium bridgesii Rusby, VII: 52
Heliotropium bursiferum C. Wright, VII: 64
Heliotropium calcareum Vatke, VIII: 92; XXIX: 284
Heliotropium calcicola Fernald, I: 49; II: 53, 55; XII: 16–18; XVII: 107
Heliotropium californicum Greene, IX: 83
Heliotropium campechianum Lehm., VII: 66
Heliotropium campechianum Willd. ex Roem. & Schult., VII: 66
Heliotropium campestre Griseb., VII: 48, 58
Heliotropium canescens Humb., Bonpl. & Kunth, VII: 52
Heliotropium canescens Lehm., VII: 52
Heliotropium canum Phil., VII: 31–32
Heliotropium catamarcense I. M. Johnst., VII: 47, 49, 59
Heliotropium chenopodiaceum (A. DC.) Clos, VII: 25, 29–31; XII: 20
Heliotropium chenopodiaceum var. *ericoideum* (Miers) Reiche, VI: 74; VVI: 29–30
Heliotropium chenopodiaceum var. *genuinum*, VII: 29
Heliotropium chenopodiaceum var. *filifolium* Reiche, VII: 32
Heliotropium chenopodiaceum var. *sclerocarpum* Reiche, VII: 30
Heliotropium chenopodioides Humb. & Bonpl., VII: 14
Heliotropium chrysanthum Phil., VII: 47, 49, 60
Heliotropium chilense Bertero, VII: 14, 33
Heliotropium cinereum Humb., Bonpl. & Kunth, VII: 52
Heliotropium citrifolium Lehm., VII: 72; VIII: 69
Heliotropium clausseni A. DC., VII: 68–69
Heliotropium clausseni f. *robustior* Chodat, VII: 68–69
Heliotrpoium confertifolium Torr., XVI: 229–130
Heliotrpoium confertifolium var. *coldenioides* I. M. Johnst., XVI: 229–130
Heliotropium convolvulaceum (Nutt.) A. Gray, VII: 47; IX: 83
Heliotropium convolvulaceum var. *californicum* (Nutt.) A. Gray, IX: 83
Heliotropium convolvulaceum var. *racemosum* (Rose & Standl.) I. M. Johnst., XII: 19; XVI: 231
Heliotropium cordifolium Moench, VII: 19
Heliotropium coriaceum Lehm., XII: 15
Heliotropium cornutum I. M. Johnst., VIII: 90–91
Heliotropium corymbosum Ruíz & Pav., VII: 35, 39
Heliotropium corymbosum Reiche, VII: 35
Heliotropium crassifolium Boiss. & Noe, VII: 35
Heliotropium cremnogenum I. M. Johnst., XIII: 376
Heliotropium crassifolium Boiss. & Noe, VII: 35
Heliotropium crassifolium Phil., VII: 35
Heliotrpoium crispiflorum Urb., XVIII: 135
Heliotropium crispulum Gürke, VII: 71
Heliotropium curassavicum L., VII: 8, 14, 16; X: 57–58; XVIII: 134–135; XXX: 13–15
Heliotropium curassavicum var. *argentinum* I. M. Johnst., VII: 15–16; XXX: 15
Heliotropium curassavicum var. *chenopodioides* Lehm., VII: 14
Heliotropium curassavicum var. *fruticulosum* I. M. Johnst., XXX: 15
Heliotropium curassavicum var. *genuinum*, VII: 14
Heliotropium curassavicum var. *obovatum* DC., VII: 16
Heliotropium curassavicum var. *parviflorum* Ball, VII: 14
Heliotropium curassavicum var. *typicum*, XXX: 15
Heliotropium dasycarpum Fresen. ex Gürke, VII: 73
Heliotropium decumbens Lehm., VII: 52
Heliotropium deflersii O. Schwartz, XXIX: 286

Heliotropium demissum Roem. & Schult., VII: 70; XVIII: 136
Heliotropium dichroum Urb., XII: 16, 18
Heliotropium distantiflorum Hassl., VII: 49, 66
Heliotropium eggersii Urb., VII: 52; XII: 17
Heliotropium elachanthum F. Muell., III: 68; VII: 79
Heliotrpoium elegans Urb., XVIII: 135
Heliotropium ellipticum Gürke, VII: 52
Heliotropium elongatum Hoffm. ex Roem. & Schult., VII: 18, 21
Heliotropium elongatum Lehm., VII: 18
Heliotropium elongatum var. *burchellii* I. M. Johnst., VII: 19
Heliotropium elongatum var. *genuinum*, VII: 18
Heliotropium erectum Lam., XIII: 375
Heliotropium erectum Vell., VII: 72; VIII: 89
Heliotropium eremoggenum I. M. Johnst., XII: 20
Heliotropium erianthum I. M. Johnst., VII: 39, 41–42
Heliotropium europaeum L., VII: 3; X: 57; XX: 110
Heliotropium fallax I. M. Johnst., XII: 14–16; XIV: 50
Heliotropium fallax var. *hintonii* I. M. Johnst., XII: 15–16; XIV: 50
Heliotropium ferreyrae I. M. Johnst., XXVIII: 296
Heliotropium filifolium (Miers) I. M. Johnst., VII: 26, 30–32
Heliotropium filiforme Lehm., VII: 49–50, 61–63; X: 57, 59, 62; XVIII: 134, 137
Heliotropium floridum (A. DC.) Clos, VII: 26, 37–38
Heliotropium floridum var. *bridgesii* Clos, VII: 26
Heliotropium floridum var. *latifolium* Phil., VII: 37–38
Heliotropium foetidum Salisb., VII: 19
Heliotropium foliatum R. Br., VII: 46
Heliotropium foliosum Roem. & Schult., VII: 63
Heliotrpoium formosanum I. M. Johnst., XX: 111, 114
Heliotropium fragrans J. F. Macbr., VII: 71
Heliotropium fresenii Gürke, VII: 68
Heliotrpoium frutescens, XVII: 107
Heliotropium fruticosum L., VII: 49, 62–63, 66–68, 70; X: 64; XI: 186–187; XII: 17; XIII: 376; XVIII: 136, 138
Heliotropium fruticosum of authors, not L., X: 61
Heliotropium fruticosum var. *angustilobum* DC., VII: 70; XVIII: 136
Heliotropium fruticosum var. *confertum* DC., VII: 70; XVIII: 136
Heliotropium fruticosum var. *hispidum* DC., VII: 70; XVIII: 135
Heliotropium fruticosum var. *persicum* Burm. f., XXIX: 288
Heliotropium fruticosum var. *ternatum* DC., VII: 69
Heliotropium fumana (Fresen.) Gürke, VII: 49, 69, 71; X: 61–62
Heliotropium gardneri Gürke, VII: 51
Heliotropium geissei F. Phil., VII: 17
Heliotrpoium genovefae I. M. Johnst., XIII: 378
Heliotropium glabriusculum (Torr.) A. Gray, VII: 9
Heliotropium glaucophyllum Moench, VII: 14
Heliotropium glaucum Salisb., VII: 14
Heliotropium glomeratum A. DC., VII: 68–69
Heliotrpoium glomerifolium Urb., XVIII: 135
Heliotropium glutinosum Phil., VII: 26, 33
Heliotropium gnaphalodes Aubl., X: 56
Heliotrpoium gnaphalodes L., XI: 165; XVIII: 129
Heliotropium gracile R. Br., VII: 72
Heliotropium grandiflorum Donn. Sm., VII: 40; XIII: 375
Heliotropium greggii Torr., VII: 47, 59
Heliotropium hasslerianum Chodat, VII: 49, 64–65
Heliotropium hasslerianum var. *rigida* Chodat & Vischer, VII: 65
Heliotropium heliophytum Gürke, VII: 61
Heliotropium helophilum Mart., VII: 61; X: 63
Heliotrpoium hintonii (I. M. Johnst.) I. M. Johnst., XIV: 50
Heliotropium hirtum Lehm., VII: 69–70; XVIII: 135
Heliotropium hispidulum Phil., VII: 31–32, 34
Heliotropium hispidulum Reiche, VII: 31

Heliotropium hispidum Humb., Bonpl. & Kunth, VII: 70; XVIII: 135
Heliotropium hispidum var. *maximum* Hassl., VII: 68
Heliotropium horizontale Small, VII: 64
Heliotropium horminifolium Mill., VII: 19
Heliotropium houstoni DC., VII: 52
Heliotropium huascoense I. M. Johnst., VII: 26–27, 34
Heliotropium humboldtianum Roem. & Schult., VII: 52
Heliotropium humifusum of Walp., VII: 72
Heliotropium humile Lam., VII: 66–68; XI: 186–187; XVIII: 137–138
Heliotropium humile (L.) R. Br., VII: 69; XVIII: 135, 137
Heliotropium humistratum Cham., VII: 48, 50
Heliotropium incanum Fresen. ex Gürke, VII: 68
Heliotropium incanum Ruíz & Pav., VII: 39, 41–42; XIII: 375
Heliotropium incanum var. *glabrum* Mast., VII: 45–46
Heliotropium inconspicum Reiche, VII: 25, 28
Heliotropium indicum L., VII: 18–19, 21; X: 57, 59; XVII: 107; XVIII: 134, 137; XX: 110–111
Heliotropium inundatum Sw., VII: 52, 54; X: 60; XII: 17; XVIII: 137; XX: 112
Heliotropium inundatum var. *chacoense* Fr., VII: 52
Heliotropium inundatum var. *cubense* DC., VII: 52; XII: 17
Heliotropium inundatum f. *elliptica* Chodat, VII: 52
Heliotropium inundatum f. *elliptica* subf. *pusilla* Hassl., VII: 52
Heliotropium izagae Phil., VII: 27
Heliotropium jaffuelii I. M. Johnst., XII: 19
Heliotropium jaliscense J. F. Macbr., VII: 44
Heliotropium japonicum A. Gray, XI: 164; XX: 119–120
Heliotropium johnstonii Ragonese, XXX: 14
Heliotrpoium karwinskyi I. M. Johnst., XIII: 377–378
Heliotropium katangense Gürke, VIII: 91–92
Heliotropium kingii Reiche, VII: 32
Heliotropium krausseanum Fedde in K. Just, VII: 25, 28
Heliotropium lagoense (Warm.) Gürke, VII: 48–51; X: 57–58; XVIII: 133–134
Heliotropium lanatum Humb., Bonpl. & Kunth, VII: 42
Heliotropium lanceolatum Ruíz & Pav., VII: 39–40
Heliotropium lancifolium Sessé & Moç., II: 53; XVII: 107
Heliotropium latifolium Willd. ex Lehm., VII: 10; X: 64
Heliotropium leavenworthii Torr., VII: 64
Heliotropium lehmannianum Bruns, X: 58
Heliotropium leiocarpum Morong, VII: 21, 24; VIII: 89–90
Heliotropium leiocarpum f. *albiflora* Chodat, VII: 24–25
Heliotropium leiocarpum f. *minor* Chodat, VII: 24
Heliotropium leptostachyum Gürke, VII: 54
Heliotropium limbatum Benth., II: 53; XVI: 230
Heliotrpoium limbatum var. *confertifolium* Torr., XVI: 230
Heliotropium linariaefolium F. Phil., VII: 37
Heliotropium linariaefolium Phil., VII: 26, 36–38
Heliotropium lineare (E. Mey.) C. H. Wright, XI: 167
Heliotropium lineare Gürke, VII: 5
Heliotropium linifolium Gürke, VII: 63
Heliotropium lippioides Krause, VII: 39–42
Heliotropium lithospermifolium Speg., VII: 21
Heliotropium lithospermoides Roem. & Schult., II: 28; XXIII: 352
Heliotropium lithospermoides Willd. ex Lehm., VII: 72
Heliotropium lobbii I. M. Johnst., VII: 48, 54
Heliotropium longiflorum Hochst. & Steud., VII: 5
Heliotropium longiflorum Phil., VII: 37
Heliotropium longipetiolatum Gürke, VII: 52
Heliotropium longistylum Phil., VII: 26, 34
Heliotropium macranthum Gürke, VII: 68–69
Heliotropium macrodon Gürke, VII: 51
Heliotropium madagascariense (Vatke) I. M. Johnst., VIII: 91
Heliotropium mandonii I. M. Johnst., VII: 39, 43
Heliotropium marifolium of Baker, VIII: 91

Heliotropium marifolium Retz., VIII: 91; XX: 110, 113–114
Heliotropium martii Gürke, VII: 73
Heliotropium maximum Chodat & Hassl., VII: 68–69
Heliotropium megalanthum I. M. Johnst., VII: 26, 35
Heliotropium mendoncinum Phil., VII: 47, 49, 58, 60
Heliotropium meserschmidioides Kuntze, VII: 5; XI: 166–168
Heliotropium mexicanum Greenm., XVIII: 136
Heliotropium mexicanum Sessé & Moç., XII: 14, 16; XVIII: 109; XXIII: 352
Heliotropium michoacanum I. M. Johnst., XIV: 49–50
Heliotropium micranthos (Bunge) Boiss., XI: 167
Heliotropium microcalyx Ruíz & Pav., VII: 72; XXVIII: 295
Heliotropium microphyllum Sw. ex Wikstr., XVIII: 134–135
Heliotropium microstachyum Ruíz & Pav., VII: 12–14
Heliotropium minarum Glaz., VII: 72; VIII: 90
Heliotropium minus, lithospermi foliis Sloane, VII: 67
Heliotropium molle (Torr.) I. M. Johnst., XIII: 375, 379
Heliotropium monostachyum Cham., VII: 7–8
Heliotropium monostachyum var. *ovatum* Chodat & Hassl., VII: 7–8
Heliotropium monostachyum var. *tiaridioides* Chodat, VII: 6
Heliotropium montevidense Arechav., VII: 4, 22
Heliotropium myosotifolium (A. DC.) Reiche, VII: 25–26, 30–32
Heliotropium myosotoides Chapm., VII: 66
Heliotropium nelsoni C. Wright, VII: 5
Heliotropium nicotianaefolium Poir., VII: 21, 23, 25
Heliotropium nigerinum A. Chev., VIII: 91–92
Heliotropium oaxacanum DC., XVII: 108–109; XVIII: 136
Heliotropium oblongifolium M. Martens & Galeotti, VII: 11
Heliotropium ocellatum Cham., VII: 49, 63
Heliotropium odoratum Moench, VII: 39
Heliotropium odorum Gürke, VII: 71
Heliotropium odorum Salisb., VII: 39
Heliotropium oppositifolium Ruíz & Pav., VII: 72
Heliotropium orientale L., VII: 80
Heliotropium ottoni Lehm., VII: 70; XVIII: 136
Heliotropium ottonianum Roem. & Schult., VII: 70; XVIII: 136
Heliotropium ottonis DC., VII: 70; XVIII: 136
Heliotropium ovalifolium Forssk., VII: 54; XX: 110–111
Heliotropium ovalifolium Fresen. ex Gürke, VII: 66
Heliotropium ovalifolium Hassl., VII: 64
Heliotropium ovatum Schott ex Fresen., VII: 7
Heliotropium oxylobum I. M. Johnst., VII: 48, 57–58
Heliotropium pallescens I. M. Johnst., VII: 49, 65–66
Heliotropium pannifolium Burch. ex Hemsl., XI: 168
Heliotropium paradoxum (Mart.) Gürke, VII: 48, 51–52, 73
Heliotropium parciflorum (Mart.) Gürke, VII: 48, 51
Heliotropium paronychioides A. DC., VII: 13, 16–17
Heliotropium parviflorum L., VII: 10, 28; X: 64; XVII: 107; XVIII: 138
Heliotropium patagonicum (Speg.) I. M. Johnst., VII: 5–6, 8
Heliotropium patibilcense Humb., Bonpl. & Kunth, VII: 11
Heliotropium pearcei Phil., VII: 29
Heliotropium persicariaefolium Britton, VII: 7–8
Heliotropium persicum Gand., XXIX: 288
Heliotropium peruvianum L., VII: 39, 42–43; XX: 110
Heliotropium petraeum Brandegee, XII: 17
Heliotropium phaenocarpum (Phil.) Reiche, II: 61; VII: 13
Heliotropium philippianum I. M. Johnst., VII: 26, 36, 38; XII: 20
Heliotropium phylicioides Cham., VII: 21, 23
Heliotropium phylicioides f. *lucilaefolia* Arechav., VII: 23

Heliotropium phyllostachyum Torr., VII: 66
Heliotropium phyllostachyum var. *erectum* J. F. Macbr., XIII: 375–376
Heliotropium physocalycium Donn. Sm., VII: 44
Heliotropium piauhiense Gürke, VII: 66
Heliotropium pilosum Ruíz & Pav., VII: 13, 48, 55–57
Heliotropium pilosum var. *albatum* I. M. Johnst., VII: 56–57
Heliotropium pilosum var. *genuinum*, VII: 56
Heliotropium pinnatum Vahl, VII: 72
Heliotropium plumerii Urb., XVIII: 135
Heliotropium polyanthellum I. M. Johnst., VII: 48, 56; XXVIII: 296
Heliotropium polyphyllum Lehm., VII: 49, 63–64, 66, 73
Heliotropium polyphyllum var. *blanchetii* DC., VII: 63–64
Heliotropium polyphyllum var. *genuina*, VII: 63
Heliotropium portulacoides DC. ex Bello, VII: 14
Heliotropium procumbens Humb., Bonpl. & Kunth, VII: 52, 61
Heliotropium procumbens Mill., VII: 48, 52, 57, 73, 89; X: 57, 60; XII: 16–18; XVIII: 134, 137; XX: 112
Heliotropium pubescens Gürke, VII: 63
Heliotropium pueblense Standl., XII: 17
Heliotropium pullulans Fresen., VII: 50–51
Heliotropium purdiei I. M. Johnst., VII: 49, 60
Heliotropium pycnophyllum Phil., VII: 26, 35–37
Heliotropium queretaroanum I. M. Johnst., XVI: 230
Heliotropium repens Griseb., VII: 9
Heliotropium repens var. *medium* Kuntze, VII: 9
Heliotropium repens var. *stenophyllum* Kuntze, VII: 9
Heliotropium rigidifolium A. DC., VII: 68–69
Heliotropium rigidulum DC., VII: 72–73; VIII: 89; XII: 17
Heliotropium riparium Mart. ex Chodat, VII: 52
Heliotropium rivinoides Hassl., VII: 73
Heliotropium rosmarinifolium Bertero, VII: 27, 33
Heliotropium rotundifolium Sieb. ex Lehm., VII: 73
Heliotropium rufipilum (Benth.) I. M. Johnst., VII: 39, 43–46
Heliotropium rufipilim var. *anadenum* I. M. Johnst., VII: 44–45
Heliotropium rufipilum var. *genuinum*, VII: 44–45
Heliotropium ruiz-lealii I. M. Johnst., XXX: 13–14
Heliotropium rugosum M. Martens & Galeotti, VII: 11, 27
Heliotropium rugosum Phil., VII: 27
Heliotropium salicoides Cham., VII: 49, 68–71; X: 62; XVIII: 136
Heliotropium salsum Griseb., VII: 9
Heliotropium saxatile Brandegee, VII: 28
Heliotropium saxatile Krause, VII: 28
Heliotropium scandens Noronha, XI: 150
Heliotropium scandens Vell., VII: 73; VIII: 78
Heliotropium schreiteri I. M. Johnst., VII: 5–6, 10
Heliotropium sclerocarpum Phil., VII: 26, 30
Heliotropium scorpioides Humb., Bonpl. & Kunth, VII: 11; X: 64
Heliotropium scorpioides Willd. ex Lehm., VII: 11, 73; XXIII: 361
Heliotropium semiamplexicaule Larrañaga, VII: 22
Heliotropium sessei I. M. Johnst., XII: 13–14, 16; XVII: 108
Heliotropium sidaefolium Cham., VII: 24
Heliotropium simplex Meyen, VII: 52; XII: 17–18
Heliotropium sinuatum (Miers) I. M. Johnst., VII: 25–28, 34
Heliotropium sp., VII: 28
Heliotropium sp. Oliv., X: 61
Heliotropium stenophyllum A. DC., VII: 33
Heliotropium stenophyllum Hook. & Arn., VII: 26, 32–34, 38
Heliotropium stenophyllum var. *myosotifolium* A. DC., VII: 31
Heliotropium stenophyllum var. *myosotifolium* Clos in Gay, VII: 31

Heliotropium stenophyllum var. *rosmarinifolium* Clos in Gay, VII: 33
Heliotropium stenostachyum Gürke, VII: 61
Heliotropium strictissimum Moric. ex DC., VII: 68–69; XVIII: 136
Heliotropium strictissimum sensu N. E. Brown, X: 61
Heliotropium strictum Humb., Bonpl. & Kunth, VII: 68, 70; XVIII: 136
Heliotropium strigosum Willd., XX: 110, 112–114
Heliotropium stylosum Phil., VI: 75; VII: 73
Heliotropium submolle Klotzsch, VII: 39, 45–46
Heliotropium subracemosum Warm., VII: 68–69
Heliotropium synzystachyum Ruíz & Pav., VII: 10
Heliotropium taltalense (Phil.) I. M. Johnst., VII: 25, 27–28
Heliotropium tarmense E. H. L. Krause, VII: 73
Heliotropium tenellum (Nutt.) Torr., II: 54
Heliotropium tenue Roem. & Schult., VII: 61
Heliotropium ternatum Vahl, VII: 49, 61, 67–69, 71; VIII: 66; X: 57, 61–62, 64; XI: 187; XVIII: 134–138; XXIII: 358
Heliotropium ternatum var. *fumana* (Fresen.) I. M. Johnst., X: 62
Heliotropium texanum I. M. Johnst., XVI: 231
Heliotropium thymifolium Vahl ex Lehm., VII: 73
Heliotropium thymoides var. sensu Vatke, XXIX: 284–285
Heliotropium tiaridioides Cham., VII: 6, 8; XI: 186
Heliotropium tiaridioides var. *genuina*, VII: 6, 10; XI: 186
Heliotropium tiarioidides var. *schizocarpum* I. M. Johnst., VII: 7–8; XI: 186
Heliotropium toratense I. M. Johnst., VII: 48, 54–55
Heliotropium torreyi I. M. Johnst., XXX: 13
Heliotropium transalpinum Vell., VII: 7–8; XI: 186
Heliotropium transandinum var. *tiarioides* (Cham.) I. M. Johnst., XI: 186
Heliotropium trinitensis Urb., VII: 49–50; X: 58; XVIII: 134
Heliotropium tuberculatum Gürke, VII: 5
Heliotropium tuberculosum (Cham.) Gürke, XI: 165, 167
Heliotropium urbanianum E. H. L. Krause, VII: 39, 45–46
Heliotropium uninerve Urb., XII: 16, 18; XIII: 378
Heliotropium vatkei Baker, VIII: 92; XXIX: 284
Heliotropium vernicosum Phil., VII: 34
Heliotropium veronicifolium Griseb., VII: 6, 8–10
Heliotropium viridiflorum (Roxb.) Lehm., XI: 153–154
Heliotropium wigginsii I. M. Johnst., XVI: 232
Heliotropium willdenowii G. Don, VII: 52
Heliotropium xerophilum Cockerell, VII: 16
Heliotropium zeylanicum Burm. f., XI: 167–168
Heliotropium zeylanicum Lam., VII: 5
Hemisphaerocarya paysonii (J. F. Macbr.) Brand, XXXI: 160
Henreyettana mirabilis Brand, XII: 25
Heterocaryum A. DC., III: 60
Hieranthemum (Endl.) Spach, VII: 18
Hippoglossum Hartm., III: 67
Hydrophyllaceae, IV: 15; XXV: 288
Hymenesthes Miers, VIII: 47
Hymenesthes nitida Miers, VIII: 47
Hyptis Jacq., XVII: 96
Hyptis membranacea Benth., VIII: 63

Ipomea L., VIII: 22
Isoplesion Raf., XXX: 51; XXV: 283
Isorium Raf., III: 51; XXV: 293
Ixorrhoea Fenzl, XIX: 175

Johnstonella Brand, IV: 6, 19, 21, 26; VI: 31
Johnstonella inequata Brand, IV: 34
Johnstonella racemosa Brand, IV: 32
Johnstonella racemosa var. *lignosa* Brand, IV: 32

Krynitzkia Fisch. & C. A. Mey., I: 48, 59; II: 45; IV: 4–6, 19–20, 25; VI: 31; IX: 81
Krynitzkia sect. *Eukrynitzkia* A. Gray, IV: 25
Krynitzkia sect. *Myosotidea*, IV: 6
Krynitzkia sect. *Piptocalyx* A. Gray, I: 55; IV: 26
Krynitzkia sect. *Pterygium* A. Gray, IV: 6, 26

Krynitzkia subsect *Piptocalyx* A. Gray, I: 55
Krynitzkia affinis A. Gray, IV: 101
Krynitzkia alyssoides A. Gray, VI: 64
Krynitzkia ambigua A. Gray, IV: 84
Krynitzkia angustifolia A. Gray, IV: 32
Krynitzkia barbigera A. Gray, IV: 66–67
Krynitzkia barbigera var. *inops* Brandegee, IV: 67–68
Krynitzkia brachycarpa A. Gray ex Ind. Kew, IX: 75
Krynitzkia californica A. Gray, I: 78; IV: 104; IX: 79
Krynitzkia californica var. *subglochidiata* A. Gray, I: 79; IV: 104; IX: 38
Krynitzkia cedrocensis Greene, IV: 48
Krynitzkia chorisiana A. Gray, I: 77; IV: 104; IX: 48
Krynitzkia circumscissa A. Gray, I: 55; IV: 41
Krynitzkia clandestina A. Gray, VI: 59
Krynitzkia cooperi A. Gray, I: 78; IV: 104; IX: 54
Krynitzkia crassisepala A. Gray, IV: 59
Krynitzkia cycloptera Greene, IV: 52–53
Krynitzkia decipiens M. E. Jones, IV: 61
Krynitzkia denticulata Greene, IV: 71
Krynitzkia depressa M. E. Jones, IV: 104; XVI: 240
Krynitzkia dichotoma Greene, I: 55; IV: 42
Krynitzkia dumetorum Greene, IV: 46
Krynitzkia echioides M. E. Jones, IV: 104
Krynitzkia fendleri A. Gray, IV: 89
Krynitzkia floribunda A. Gray, I: 51; IV: 105
Krynitzkia foliosa Greene, IV: 63
Krynitzkia fulvocanescens A. Gray, IV: 105
Krynitzkia fulvocanescens var. *idahoensis* M. E. Jones, IV: 105
Krynitzkia glomerata A. Gray, IV: 105
Krynitzkia glomerata var. *acuta* M. E. Jones, IV: 105
Krynitzkia glomerata var. *virgenensis* M. E. Jones, IV: 105
Krynitzkia grayi Vasey & Rose, IV: 39
Krynitzkia heliotropioides A. Gray, I: 51; IV: 105
Krynitzkia holoptera A. Gray, IV: 31
Krynitzkia intermedia A. Gray, IV: 63
Krynitzkia jamesii M. E. Jones, IV: 105
Krynitzkia jonesii A. Gray, IV: 71
Krynitzkia kingii S. Watson, I: 68; IV: 105
Krynitzkia leiocarpa Fisch. & C. A. Mey., IV: 4, 92
Krynitzkia leucophaea A. Gray, IV: 105
Krynitzkia leucophaea var. *alata* M. E. Jones, IV: 105
Krynitzkia linearis A. Gray, VI: 69
Krynitzkia linifolia A. Gray, I: 74; VI: 88
Krynitzkia lithocarya Greene, I: 76; IV: 105; IX: 50
Krynitzkia maritima Greene, IV: 48
Krynitzkia mensana M. E. Jones, IV: 105
Krynitzkia mexicana Brandegee, I: 53; IV: 43; VI: 38; XXXI: 161
Krynitzkia micrantha A. Gray, I: 56; IV: 36
Krynitzkia micrantha var. *lepida* A. Gray, I: 57; IV: 37
Krynitzkia micromeres A. Gray, IV: 47
Krynitzkia microstachys Greene, IV: 93
Krynitzkia mixta M. E. Jones, IV: 66
Krynitzkia mohavensis Greene, IV: 87
Krynitzkia mollis A. Gray, IV: 105; IX: 25
Krynitzkia multicaulis var. *abortiva* M. E. Jones, IV: 105
Krynitzkia multicaulis var. *setosa* M. E. Jones, IV: 105
Krynitzkia muriculata A. Gray, IV: 70
Krynitzkia oblata M. E. Jones, IV: 105
Krynitzkia oxycarya A. Gray, IV: 99
Krynitzkia oxygona A. Gray, IV: 51
Krynitzkia palmeri A. Gray, IV: 106
Krynitzkia parryi A. Gray, I: 52; IV: 106
Krynitzkia pattersoni A. Gray, IV: 55
Krynitzkia peninsularis Rose, I: 51; IV: 106
Krynitzkia phacelioides Fisch. & C. A. Mey., VI: 36
Krynitzkia plebeia A. Gray, I: 78; IV: 106
Krynitzkia pterocarya A. Gray, IV: 52
Krynitzkia pterocarya var. *pectinata* A. Gray, IV: 52
Krynitzkia pusilla A. Gray, IV: 35
Krynitzkia pustulata Blank., IV: 106
Krynitzkia racemosa Greene, IV: 32
Krynitzkia ramosa A. Gray, I: 53; IV: 43; VI: 37
Krynitzkia ramosissima A. Gray, IV: 32, 48
Krynitzkia ramosissima of Greene, IV: 48

Krynitzkia rostellata Greene, IV: 98
Krynitzkia scouleri A. Gray, I: 75; IV: 106; IX: 51; XI: 193
Krynitzkia sericea A. Gray, IV: 106; IX: 87
Krynitzkia sericea var. *fulvocanescens* M. E. Jones, IV: 106
Krynitzkia setosissima A. Gray, IV: 106
Krynitzkia sparsiflora Greene, IV: 100
Krynitzkia suksdorfii Greenm., IV: 98
Krynitzkia tenuifolia A. Gray, I: 78; VI: 96
Krynitzkia texana A. Gray, IV: 56
Krynitzkia torreyana A. Gray, IV: 79
Krynitzkia torreyana var. *calycosa* A. Gray, IV: 79
Krynitzkia trachycarpa A. Gray, I: 78; IV: 106; IX: 74, 76
Krynitzkia utahensis A. Gray, IV: 50
Krynitzkia virgata A. Gray, IV: 106
Krynitzkia watsoni A. Gray, IV: 87
Ktenospermum Lehm., II: 34; VI: 113
Ktenospermum linifolium Lehm., II: 35; VI: 117
Kuschakewiczia Regel & M. Smirn., III: 71

Labitae Juss., V: 45
Lacaitaea Brand, III: 69–70; IV: 14–15; XXII: 76–77
Lacaitaea calycosa (Coll. & Hemsl.) Brand, III: 70; XXII: 75
Lantana bullata L., XVII: 98–100
Lantana corymbosa L., VIII: 30; X: 33–36; XVII: 91, 93–94
Lantana inerma Miller, XVII: 95–96
Lappula Moench, I: 43–44, 59; II: 6, 37, 47–51, 57–58, 60–61; VI: 5, 25, 101–102; VII: 76; IX: 92; XIV: 52; XVI: 236
Lappula sect. *Cryptantha* T. Post & Kuntze, IV: 25
Lappula sect. *Eremocaryum* T. Post & Kuntze, IV: 26
Lappula sect. *Piptocalyx* T. Post & Kuntze, IV: 26
Lappula sect. *Pterygium* T. Post & Kuntze, IV: 26
Lappula americana Rydb., I: 45
Lappula angustata Rydb., I: 46
Lappula anoplocarpa Greene, II: 50
Lappula arida Piper, I: 48
Lappula arida var. *cusickii* A. Nelson & J. F. Macbr., I: 48
Lappula bella J. F. Macbr., I: 47
Lappula besseyi Rydb., I: 46
Lappula brachystyla (Gray) J. F. Macbr., II: 47–48
Lappula caerulescens Rydb., I: 48; XI: 194
Lappula californica Piper, I: 47
Lappula calycosa Rydb., II: 49; IX: 93
Lappula cenchrusoides A. Nelson, II: 47–48
Lappula ciliata Greene, I: 46
Lappula cinera Piper, I: 46
Heliotropium coerulescens Rydb., XI: 194
Lappula collina Greene, IX: 93
Lappula columbiana A. Nelson, II: 50; IX: 93
Lappula coronata Greene, II: 51; IX: 91
Lappula costaricensis Brand, I: 46; VI: 103–104
Lappula cottoni Piper, I: 48
Lappula cucullata A. Nelson, II: 50; IX: 93
Lappula cupulata A. Nelson & J. F. Macbr., II: 50; IX: 93
Lappula cupulata Rydb., II: 49; IX: 91
Lappula cupulata var. *foliosa* A. Nelson & J. F. Macbr., II: 51; IX: 93
Lappula cusickii Piper, I: 48
Lappula decumbens A. Nelson ex Brand, XI: 194
Lappula deflexa Greene, I: 45
Lappula deflexa var. *americana* Greene, I: 45
Lappula desertorum Greene, II: 50; IX: 93
Lappula desertorum var. *foliosa* A. Nelson, II: 51; IX: 93
Lappula diffusa Greene, I: 47–48
Lappula dielsii Brand, I: 45; XII: 25
Lappula echinata Gilib., II: 47; XI: 194–195
Lappula erecta A. Nelson, II: 48; IX: 95
Lappula floribunda Greene, I: 46
Lappula foliosa A. Nelson, II: 51; IX: 93
Lappula fremontii (Torr.) Greene, II: 47–48; IX: 95
Lappula glochidiata Brand, I: 45
Lappula gracilenta Eastw., I: 46
Lappula grisea Wooton & Standl., I: 46; XI: 194
Lappula guatemalensis Brand, I: 46; VI: 103–104

Lappula heliocarpa Brand., I: 45
Lappula hendersoni Piper, I: 48
Lappula heterosperma Greene, II: 50; IX: 91
Lappula heterosperma var. *homosperma* A. Nelson, II: 51; IX: 91
Lappula hirsuta Wooton & Standl., I: 46
Lappula hispida Greene, I: 46
Lappula inconspicua Brand, IX: 93
Lappula infelix Greene, II: 50; IX: 93
Lappula jessicae McGregor, I: 47
Lappula lappula H. Karst., II: 47
Lappula laxa J. F. Macbr., I: 45
Lappula leptophylla Rydb., I: 46
Lappula leucantha Greene, I: 47
Lappula leucotricha Rydb., II: 49; IX: 93
Lappula macrophylla Brand, I: 45
Lappula mexicana Greene, I: 46; VI: 104
Lappula micrantha Eastw., I: 47
Lappula microcarpa (Ledeb.) Brand, XIV: 52
Lappula montana Greene, II: 49, 51; IX: 93
Lappula nervosa Greene, I: 47
Lappula occidentalis Greene, II: 48; IX: 93–94
Lappula patagonica Druce, II: 49; VI: 102; IX: 93
Lappula pilosa Hitchc., II: 48; IX: 92
Lappula pinetorum Greene, I: 45
Lappula pustulata J. F. Macbr., I: 45
Lappula rattanii Brand, I: 47
Lappula redowskii (Hornem.) Greene, II: 47–50; V: 43; VI: 101–102; VII: 75; IX: 92–95; XI: 195
Lappula redowskii var. *cupulatum* M. E. Jones, II: 49–50; IX: 91
Lappula redowskii var. *desertorum* (Greene) I. M. Johnst., IX: 92–94
Lappula redowskii var. *occidentalis* (S. Watson) Rydb., II: 47–51; IX: 93–94
Lappula redowskii var. *patula* (Lehm.) A. Nelson & J. F. Macbr., II: 47, 49
Lappula redowskii var. *pilosum* MacMill., II: 48; IX: 92
Lappula redowskii var. *texana* Brand, IX: 91
Lappula revoluta Brand, I: 45; VI: 103
Lappula revoluta f. *fiebrigii* Brand, I: 46; VI: 103
Lappula revoluta f. *ovatifolia* Brand, I: 46; VI: 103
Lappula saxatilis Piper, I: 48
Lappula scaberrima Piper, I: 46
Lappula setosa Piper, I: 46
Lappula spinocarpa (Forssk.) Asch., III: 60
Lappula stipitata Druce, I: 77; IX: 44
Lappula subdecumbens A. Nelson, I: 46–48
Lappula subdecumbens caerulescens (Rydb.) Garrett, I: 48; XI: 194
Lappula texana (Scheele) Britton, II: 47, 49–51; V: 43; VI: 101–102; VII: 75; IX: 91–92, 94
Lappula texana var. *columbiana* (A. Nelson) I. M. Johnst., II: 47, 49–51; V: 43; VI: 102; IX: 93
Lappula texana var. *coronata* (Greene) A. Nelson & J. F. Macbr., II: 47, 51; IX: 91–92
Lappula texana var. *foliosa* (A. Nelson) I. M. Johnst., II: 47, 50–51; IX: 93
Lappula texana var. *genuina*, II: 47, 49–51
Lappula texana var. *heterosperma* (Greene) A. Nelson & J. F. Macbr., II: 47, 50–51; IX: 91
Lappula texana var. *homosperma* (A. Nelson) A. Nelson & J. F. Macbr., II: 47, 50–51; IX: 92
Lappula trachyphylla Piper, I: 48
Lappula ursina Greene, I: 46
Lappula velutina Piper, I: 47
Lappula virginiana Greene, I: 45
Lapula Gilib., III: 60
Lapula echinata Gilib., III: 60
Larephes Raf., III: 51; XXV: 283
Lasiarrhenum I. M. Johnst., II: 4, 15–16; III: 44; XI: 187; XXVI: 2, 7, 20, 26–33, 62–63, 75; XXVII: 158–160, 162, 165; XXX: 16
Lasiarrhenum lundellii I. M. Johnst., XXX: 15–16
Lasiarrhenum pinetorum I. M. Johnst., XI: 187; XXVI: 31
Lasiarrhenum strigosum (Humb., Bonpl. & Kunth) I. M. Johnst., II: 15; V: 41; XI: 187; XXVI: 29; XXX: 16
Lasiocaryum I. M. Johnst., V: 45–46; XIV: 51–52
Lasiocaryum densiflorum (Duthie) I. M. Johnst., XIV: 51
Lasiocaryum diffusum (Brand) I. M. Johnst., XIV: 51–52
Lasiocaryum munroi (C. B. Clarke) I. M. Johnst., V: 46; XIV: 51–52

Lasiocaryum trichocarpum (Hand.-Mazz.) I. M. Johnst., V: 46
Lauraceae Juss., VIII: 63
Lavendula L., XXVI: 33
Lawsonia L., XXV: 278, 281
Leiocarya Hochst., III: 70
Lepidocordia Ducke, X: 2–3, 45–46; XIX: 173–176
Lepidocordia punctata Ducke, X: 45
Leptanthe Klotzch, III: 48; XXIII: 312; XXVI: 51
Leptanthe macrostachya Klotzsch, XXIII: 333; XXVI: 51
Leurocline S. Moore, III: 49–50; XXIX: 261
Leurocline chazaliei Bonnet, III: 50; XXIX: 274
Leurocline lithospermoides S. Moore, III: 49–50; XXIX: 261, 273
Leurocline mauritiana Bonnet, III: 50; XXIX: 274
Leurocline somalensis S. Moore, III: 50; XXIX: 271
Lindelofia Lehm., III: 71; V: 44; XXVII: 158–159
Lithocardium Kuntze, VIII: 41
Lithocardium acutifolium Kuntze, VIII: 57
Lithocardium affine Kuntze, VIII: 24
Lithocardium alliodorum Kuntze, VIII: 13
Lithocardium anabaptista Kuntze, VIII: 46
Lithocardium anderssonii Kuntze, XI: 175
Lithocardium asterophorum Kuntze, VIII: 15
Lithocardium aubletii (DC.) Kuntze, X: 41
Lithocardium bicolor Kuntze, VIII: 54; X: 23
Lithocardium blanchetii Kuntze, VIII: 44
Lithocardium brachypodum Kuntze, VIII: 57
Lithocardium calocephalum Kuntze, VIII: 38
Lithocardium calophyllum (Vahl) Kuntze, X: 18
Lithocardium chamissonianum Kuntze, VIII: 15
Lithocardium corchifolium Kuntze, VIII: 37
Lithocardium cordifolium Kuntze, VIII: 55; X: 11
Lithocardium corymbosum var. *humile* (Jacq.) Kuntze, XVII: 98
Lithocardium corymbosum f. *glabriusculum* Kuntze, VIII: 30
Lithocardium cylindrostachyum var. *platyphyllum* Kuntze, XVIII: 120–121
Lithocardium diospyrifolium Kuntze, VIII: 60
Lithocardium discolor Kuntze, VIII: 30
Lithocardium exaltatum (Lam.) Kuntze, X: 29
Lithocardium excelsum Kuntze, VIII: 15
Lithocardium flavescens Kuntze, VIII: 63; X: 44
Lithocardium fresenii Kuntze, VIII: 25
Lithocardium galapagosenum Kuntze, XI: 176
Lithocardium gerascanthus var. *alliodorum* Kuntze, VIII: 13
Lithocardium gerascanthus var. *dominguense* Kuntze, VIII: 13
Lithocardium gerascanthus var. *puberulum* Kuntze, VIII: 15, 17
Lithocardium glabratum Kuntze, VIII: 11
Lithocardium glabratum var. *eriophyllum* Kuntze, VIII: 12
Lithocardium glabratum var. *glabrifolium* Kuntze, VIII: 12
Lithocardium glandulosum Kuntze, VIII: 29
Lithocardium grandiflorum (Desv.) Kuntze, VIII: 21; X: 32
Lithocardium guazumifolium (Desv.) Kuntze, VIII: 30; XI: 179
Lithocardium guazumifolium var. *santacruzense* Kuntze, VIII: 34
Lithocardium hartwigsiana Kuntze, VIII: 13
Lithocardium hebecarpum Kuntze, VIII: 52; X: 21
Lithocardium hermanniaefolium Kuntze, VIII: 30
Lithocardium heterophyllum Kuntze, VIII: 52; X: 21
Lithocardium hirsutum Kuntze, VIII: 28
Lithocardium hispidissimum Kuntze, VIII: 46; X: 13
Lithocardium hookerianum Kuntze, XI: 174
Lithocardium hypoleucum Kuntze, VIII: 15
Lithocardium insigne Kuntze, VIII: 10
Lithocardium insigne var. *glabrifolium* Kuntze, VIII: 11
Lithocardium intermedium Kuntze, VIII: 44
Lithocardium leptocaulon Kuntze, VIII: 59
Lithocardium leucocalyx Kuntze, VIII: 24
Lithocardium leucocephalum Kuntze, VIII: 24
Lithocardium leucophlyctis (Hook. f.) Kuntze, XI: 176

Lithocardium lockartii Kuntze, VIII: 54; X: 23; XVIII: 124
Lithocardium longiflorum Kuntze, VIII: 23
Lithocardium longipedum Kuntze, VIII: 11
Lithocardium longipedum var. *eriophyllum* Kuntze, VIII: 12
Lithocardium longipedum var. *glabrifolium* Kuntze, VIII: 12
Lithocardium macranthum Kuntze, VIII: 22
Lithocardium magnoliaefolium Kuntze, VIII: 60
Lithocardium mezianum Kuntze, VIII: 62; XI: 174
Lithocardium mirandum Kuntze, VIII: 46; X: 13
Lithocardium mucronatum Kuntze, VIII: 42
Lithocardium multispicatum Kuntze, VIII: 29; X: 43
Lithocardium muneco Kuntze, VIII: 55; X: 11
Lithocardium neowiedianum Kuntze, VIII: 64; XI: 177
Lithocardium nervosum (Lam.) Kuntze, X: 18
Lithocardium niveum Kuntze, VIII: 24
Lithocardium nodosum Kuntze, VIII: 46; X: 13
Lithocardium obscurum Kuntze, VIII: 57
Lithocardium ochnaceum Kuntze, VIII: 62
Lithocardium oxyphyllum Kuntze, X: 36
Lithocardium paniculare (Rudge) Kuntze, X: 26
Lithocardium piauhiense Kuntze, VIII: 44
Lithocardium platyphyllum Kuntze, VIII: 51
Lithocardium poliophylla Kuntze, VIII: 24
Lithocardium pubescens Kuntze, VIII: 52; X: 21
Lithocardium revolutum (Hook. f.) Kuntze, XI: 174
Lithocardium rufescens Kuntze, VIII: 44
Lithocardium salacinum Kuntze, VIII: 25
Lithocardium salicifolia Kuntze, VIII: 59
Lithocardium scabridum (Mart.) Kuntze, VIII: 62; X: 30
Lithocardium schomburgkii (DC.) Kuntze, X: 39
Lithocardium scouleri (Hook. f.) Kuntze, XI: 175
Lithocardium sellowianum Kuntze, VIII: 57
Lithocardium sericicalyx Kuntze, VIII: 54; X: 25
Lithocardium sessilifolium Kuntze, VIII: 38
Lithocardium silvestre Kuntze, VIII: 61
Lithocardium sprucei Kuntze, VIII: 53; X: 17
Lithocardium striatum Kuntze, VIII: 24
Lithocardium superbum Kuntze, VIII: 44
Lithocardium tetrandrum Kuntze, VIII: 55; X: 11, 45
Lithocardium tetraphyllum Kuntze, VIII: 64; X: 45
Lithocardium tomentosum (Lam.) Kuntze, X: 41
Lithocardium toqueve Kuntze, VIII: 52; X: 21
Lithocardium trachyphyllum Kuntze, VIII: 50
Lithocardium trichocladum Kuntze, VIII: 50
Lithocardium truncatum Kuntze, VIII: 39
Lithocardium umbraculiferum Kuntze, VIII: 55; X: 11
Lithocardium verbenacea Kuntze, VIII: 25
Lithocardium villicaule Kuntze, VIII: 39
Lithodora Griseb., III: 53, 55–56; XII: 21; XXIII: 299, 303, 306, 314; XXV: 258–268, 271; XXVI: 37–388, 44, 61–62; XXVII: 158–162, 164–165
Lithodora sect. *Allostema* I. M. Johnst., XXV: 264
Lithodora sect. *Eulithodora*, XXV: 267
Lithodora sect. *Lasioglottis* I. M. Johnst., XXV: 267
Lithodora consobrina (Pomel) I. M. Johnst., III: 56; XXV: 267
Lithodora diffusa (Lag.) I. M. Johnst., III: 56; XXV: 262–263, 265–268
Lithodora fruticosa (L.) I. M. Johnst., III: 56; XXV: 262, 267
Lithodora graminifolia (Viv.) Griseb., XXV: 274
Lithodora hancockiana (Oliv.) Hand.-Mazz., XII: 21; XXIII: 354
Lithodora hispidula (Sibth. & Sm.) I. M. Johnst., III: 56; XXV: 262, 266
Lithodora moroccana I. M. Johnst., XXV: 264–266
Lithodora oleifolia (Lapeyr.) Griseb., III: 56; XXV: 262, 265–266
Lithodora prostrata Griseb., III: 56; XXV: 267
Lithodora rosmarinifolia (Ten.) I. M. Johnst., III: 56; XXV: 262, 264–266
Lithodora zahnii (Heldr.) I. M. Johnst., III: 56; XXV: 262, 266

Lithospermeae DC., I: 48; II: 4, 15, 46; III: 42–52, 55, 57, 63, 67; IV: 14–18; V: 44; VI: 6–22; XXIII: 299; XXIV: 2, 4–5; XXV: 285; XXVI: 1–81; XXVII: 158–166
Lithospermum L., II: 4, 15–16, 18–31, 54–55; III: 45, 47, 49, 55, 68–69; IV: 5, 16, 18; V: 40–41, 48; VI: 5–6, 12, 30; VII: 81; XII: 2; XXIII: 299–363; XXIV: 1–16; XXV: 258, 2600, 263, 268–270, 274, 276–277, 280; XXVI: 1–3, 6–7, 10, 14, 20–21, 24, 26, 30–33, 35–37, 39–41, 44, 49–51, 53–55, 58–65, 69, 75; XXVII: 158–162, 165; XXIX: 281
Lithospermum sect. *Batschia* (J. F. Gmel.) Endl., V: 41
Lithospermum sect. *Echianthus* Vis., XXV: 273
Lithospermum sect. *Gymnoleima* (Decne.) Endl., XXV: 268
Lithospermum sect. *Lithodora* Boiss., XXV: 259
Lithospermum sect. *Margarospermum* Rchb., XXVI: 38, 44
Lithospermum sect. *Oxyspermum* Vis., XXIV: 5
Lithospermum sect. *Rhytispermum* (Link) Rchb., XXVI: 41
Lithospermum aequitoriale Brand, XXIII: 359
Lithospermum affine DC., XXIII: 359
Lithospermum afromontanum Weim., XXIII: 319, 348; XXVI: 61
Lithospermum aggregatum Ruíz & Pav., II: 54, 60; VI: 11
Lithospermum albicans Greene, II: 25
Lithospermum albiflorum Vaniot, XII: 21; XXIII: 341
Lithospermum alpinum Roem. & Schult., I: 74; VI: 87
Lithospermum andinum E. H. L. Krause, II: 23; VI: 10; XXIII: 362
Lithospermum angustifolium Forssk., XXIV: 3
Lithospermum angustifolium Michx., II: 19, 24, 26; XVII: 109; XXIII: 343
Lithospermum angustifolium Sessé & Moç., II: 54; XXIII: 352
Lithospermum approximatum Brand, XXIII: 361
Lithospermum apulum (L.) Vahl, XXIII: 299–300; XXIV: 1, 6
Lithospermum apulum f. *cleistogamum* Murb., XXIV: 6
Lithospermum arizonicum Gand., V: 41
Lithospermum arnebia Delile, XXIII: 321
Lithospermum arvense L., II: 18, 21; VI: 7; XXIII: 300; XXVI: 38, 42
Lithospermum asperum A. Nelson, II: 25
Lithospermum aucherii I. M. Johnst., XXIII: 302, 310, 314, 316, 322, 328
Lithospermum bejariense DC., II: 31; XXIII: 339
Lithospermum benthami (Wall.) I. M. Johnst., XXIII: 302, 305, 316, 333–334; XXIV: 11–14
Lithospermum berlandieri I. M. Johnst., XXIII: 308, 320, 356–357; XXVI: 40
Lithospermum boreale Brand, XXIII: 344
Lithospermum borneense Boerl., III: 68; VII: 82; XIV: 63
Lithospermum breviflorum Engelm. & A. Gray, II: 25; XXX: 18
Lithospermum bungei (Boiss.) I. M. Johnst., XXIII: 301, 316, 326–327; XXIV: 7
Lithospermum calabrum Ten., XXV: 263–264; XXVI: 45
Lithospermum calcicola B. L. Rob., II: 20, 27; XXIII: 301, 303, 310, 321, 360, 363; XXVI: 40–41
Lithospermum calcicola var. *conzattii* (Greenm.) I. M. Johnst., II: 21, 27; XXIII: 360
Lithospermum californicum A. Gray, II: 20–21, 31; XXIII: 301–302, 305, 309, 318, 339, 363
Lithospermum callosum Vahl, III: 48; XXIV: 1, 3
Lithospermum callosum var. *asperrimum* Bornm., XXIV: 3
Lithospermum calycinum Moris, II: 44; VI: 100; XI: 203–204
Lithospermum calycosum (J. F. Macbr.) I. M. Johnst., II: 21, 30; VI: 40; XXIII: 301, 303, 306, 319–320, 347, 349–350
Lithospermum canescens (Michx.) Lehm., II: 21, 30; XXIII: 305, 309, 318, 340, 363
Lithospermum carolinianum Lam., II: 30; XXIII: 339
Lithospermum caroliniense (Walt.) MacMill., II: 21, 30; XXIII: 302, 305, 309, 318, 339–340, 363; XXVI: 59
Lithospermum chazaliei Boissieu, III: 50; XXIX: 274

Lithospermum chersinum J. F. Macbr., II: 23; XXIII: 356
Lithospermum chilense Colla, II: 44; VI: 100
Lithospermum chinense Hook. & Arn., XX: 112
Lithospermum ciliatum Forssk., XXIV: 3
Lithospermum ciliatum Raf., II: 54
Lithospermum ciliolatum Greene, II: 25
Lithospermum cinerascens (A. DC.) I. M. Johnst., V: 40; VI: 7–9; XXIII: 300; XXVI: 7, 61, 64
Lithospermum cinereum DC., XXIII: 313, 317, 321, 358; XXVI: 40, 61, 63
Lithospermum circumscissum Hook. & Arn., I: 55; IV: 5, 41
Lithospermum clandestinum Trevir., XI: 195–197
Lithospermum cobrense Greene, II: 19, 23, 26; XXIII: 302, 305, 309, 317, 338–339, 347, 363
Lithospermum cognatum Breene ex Spengler, XXIII: 337
Lithospermum colombianum Brand, XXIII: 360
Lithospermum confine I. M. Johnst., XXIII: 306, 309, 319, 346–347
Lithospermum consobrinum Pomel, III: 56; XXV: 267
Lithospermum conzattii Greenm., II: 21, 27; XXIII: 360
Lithospermum cornutum Ledeb., XXIII: 322
Lithospermum croceum Fernald, XXIII: 339–340
Lithospermum crypthantiflorum Brand, XXIII: 344
Lithospermum cuneifolium Pers., II: 54; VI: 11
Lithospermum cuspidatum Raf., II: 54
Lithospermum cyanochroum Boiss., XXIII: 334
Lithospermum cyrousianum (Parsa) I. M. Johnst., XXIV: 7; XXVI: 58
Lithospermum decumbens (Nutt.) Torr., XXIII: 344
Lithospermum decumbens Vent., XXIII: 301, 303–304, 306, 315, 322–324, 363
Lithospermum densiflorum Ledeb. ex Nordmann, XXIII: 302, 304–305, 309–310, 316, 331, 354, 363
Lithospermum detonsum I. M. Johnst., XXIII: 303–304, 307, 310, 314, 316, 327–328, 363; XXIV: 8
Lithospermum dichotomum Ruíz & Pav., II: 54, 58; VI: 11
Lithospermum diffusum Lag., III: 56; XXV: 267
Lithospermum diffusum var. *micranthum* Faure & Maire, XXV: 264
Lithospermum discolor M. Martens & Galeotti, II: 19, 23, 29; XVII: 109; XXIII: 301–302, 305, 320, 356, 363
Lithospermum discolor var. *candicans* Kuntze, II: 23; XXIII: 356
Lithospermum discolor var. *canescens* Kuntze, II: 29
Lithospermum discolor var. *subviride* Kuntze, II: 24, 29; XXIII: 360
Lithospermum distichum Ortega, II: 19, 22–24, 29; V: 40–41; VI: 30; VII: 73; XVII: 109; XXIII: 303, 321, 361–363; XXVI: 41
Lithospermum divaricatum Siebold ex Spreng., III: 50; XXIX: 279
Lithospermum diversifolium DC., XXIII: 321, 358; XXVI: 61
Lithospermum echioides Benth., XXIII: 336
Lithospermum erythrorhizon Sieb. & Zucc., XXIII: 318, 321, 341–342; XXVI: 61
Lithospermum euchromon Royle ex Benth., III: 49; XXIII: 302, 305, 307, 309, 316, 333, 363; XXIV: 11–13
Lithospermum euryphyllum Brand, XXIII: 352
Lithospermum fimbriatum (Maxim.) I. M. Johnst., XXIII: 301–302, 304–305, 307, 309, 316, 328, 363
Lithospermum fimbriatum Nutt., II: 24; XXIII: 301
Lithospermum fimbriopetalum (Stocks) I. M. Johnst., XXIII: 301, 316, 326–327; XXIV: 7
Lithospermum flavescens C. Mey. ex Steud., XXIII: 328
Lithospermum flavum Sessé & Moç., II: 54; XVII: 109; XXVI: 14
Lithospermum floridiana Raf., II: 54
Lithospermum froebelii Sund., XXV: 273
Lithospermum fruticosum L., XXV: 263–264, 267
Lithospermum fruticosum Sibth. & Sm., III: 56; XXV: 266
Lithospermum galeotti Brand, XXIII: 349–350
Lithospermum gastoni Benth. ex A. DC., XXVI: 45

Lithospermum gayanum (Wedd.) I. M. Johnst., VI: 7, 10–11; XXIII: 321, 362; XXVI: 61
Lithospermum gentianoides Brand, XXIII: 338
Lithospermum glabrum A. Gray, I: 77; IX: 42–43
Lithospermum gmelinii (Michx.) Hitchc., II: 31; XXIII: 339
Lithospermum gracile Raf., II: 54
Lithospermum graminifolium Viv., XXI: 346; XXV: 263–264, 268, 271, 274
Lithospermum griffithii (Boiss.) I. M. Johnst., XXIII: 301–302, 305, 316, 326, 363
Lithospermum guatamalense Donn. Sm., II: 20, 29; VI: 8; XXIII: 320, 352, 354; XXVI: 7, 64–65
Lithospermum guttatum (Bunge) I. M. Johnst., XXIII: 301–302, 304–305, 307–309, 316, 330–331, 363
Lithospermum hancockianum Oliv., XII: 21; XXIII: 302, 317, 320, 354, 363; XXIV: 9; XXVI: 61–63
Lithospermum hirsutum E. Meyer ex DC., XXIII: 359
Lithospermum hirtum (H. L. Muhl.) Lehm., II: 31; XXIII: 339
Lithospermum hispidissima Lehm., XXIII: 302–303, 304–305, 309, 315, 325, 363; XXV: 262
Lithospermum hispidulum Siebth. & Sm., XXV: 263–264, 266
Lithospermum hispidum Ruíz & Pav., III: 75; VI: 99
Lithospermum hookeri, XXIII: 309
Lithospermum hoyasense Brand, XXIII: 360
Lithospermum hypoleucum I. M. Johnst., II: 19, 23; XXIII: 356
Lithospermum incanum G. Forst., II: 24; VI: 11
Lithospermum incanum Ruíz & Pav., II: 24, 54; VI: 11
Lithospermum incisum Lehm., II: 25; XXIII: 301–302, 306–307, 309, 318, 343, 345–349, 363; XXVI: 50, 59, 64
Lithospermum inconspicuum (Hemsl. & Lace) I. M. Johnst., XXIV: 11–12
Lithospermum incrassatum Guss., XXVI: 43
Lithospermum indecorum I. M. Johnst., XXIII: 309, 319, 349–351; XXVI: 63
Lithospermum inornatum DC., XXIII: 358
Lithospermum intermedium Froebel, XXV: 273
Lithospermum javanicum Steud., VII: 80–81
Lithospermum jimulcense I. M. Johnst., XXIII: 319, 351
Lithospermum komarovianum H. Lev., XII: 22
Lithospermum kotschyi Boiss. & Hohen. ex Boiss., XXIX: 283
Lithospermum kotschyi var. *breviflora* Bornm., XXIX: 288
Lithospermum laevigatum Sessé & Moç., II: 24; XVII: 109; XXIII: 361
Lithospermum lanceolatum Rydb., II: 30; XXIII: 348
Lithospermum lasiosiphon I. M. Johnst., II: 18, 22; V: 41; XXIII: 338
Lithospermum latifolium Forssk., II: 26
Lithospermum latifolium Michx., II: 19, 22, 26; XXIII: 318, 342, 363; XXVI: 59
Lithospermum laxum Greene, II: 30; XXIII: 348
Lithospermum lindbergianum (Rech. f.) I. M. Johnst., XXIV: 10–12
Lithospermum linearifolium Goldie, II: 25; XXIII: 328, 343
Lithospermum linifolium M. Martens & Galeotti, I: 51
Lithospermum longiflorum Salisb., XXIII: 336
Lithospermum longiflorum Sessé & Moç., II: 14; VIII: 93; XVII: 109–110; XXVI: 14
Lithospermum longiflorum (Pursh) Spreng., II: 24; XXIII: 336, 344; XXVI: 59
Lithospermum longiflorum var. *mirabile* (Small) Brand, XXIII: 342
Lithospermum longifolium Willd., II: 15; VIII: 93; XXVI: 29
Lithospermum lutescens N. Coleman, II: 26; XXIII: 342
Lithospermum luteum (Raf.) House, II: 26; XXIII: 342
Lithospermum lycopsoides Lehm., XI: 201–202
Lithospermum macbridei I. M. Johnst., VI: 7–8; XXIII: 309, 320, 355; XXVI: 61
Lithospermum madrense Brand, XXIII: 360
Lithospermum mairei H. Lev., XII: 21; XXIII: 354
Lithospermum mandanense Spreng., II: 25; XXVI: 59
Lithospermum matamorense DC., II: 18, 21; XXIII: 307, 313, 317, 320, 356–357

Lithospermum mediale I. M. Johnst., II: 20–21, 28; V: 40; VI: 7, 9; XXIII: 304, 321, 360–361, 363; XXVI: 40, 61
Lithospermum microspermum Boiss., XXIII: 300; XXIV: 1, 4
Lithospermum minumum Moris., XXIII: 327; XXVI: 40
Lithospermum minutum Wernham, III: 68; VII: 81; XI: 191; XIV: 62
Lithospermum mirabile Small, II: 19, 24; XXIII: 306, 309, 313, 317–318, 342–343, 347; XXVI: 63–64
Lithospermum molle H. L. Muhl., II: 18
Lithospermum muelleri I. M. Johnst., XI: 187; XXIII: 303–304, 309, 320, 352–353, 363
Lithospermum multiflorum Torr., II: 21, 23, 30; V: 41; XXIII: 301–302, 304–305, 317, 337, 339, 347, 363
Lithospermum murasaki Siebold, XXIII: 341
Lithospermum muricatum Ruíz & Pav., I: 79; VI: 90, 98
Lithospermum myosotoides Lehm., I: 71; VI: 80; XIII: 381
Lithospermum nelsonii Greenm., II: 19, 23; XXIII: 303–304, 308, 320, 357–358, 363; XXVI: 40
Lithospermum nobile (Rech. f.) I. M. Johnst., XXIV: 11–12, 14
Lithospermum oblongifolium Greenm., II: 20, 29; VI: 8; XXIII: 303–304, 308, 320, 352; XXVI: 7, 40
Lithospermum oblongum Greene, II: 25
Lithospermum obovatum J. F. Macbr., II: 19, 26; XXIII: 301–302, 304–305, 317, 329, 338, 363
Lithospermum obtusiflorum Sessé & Moç., II: 54; XVII: 109; XXIII: 356
Lithospermum obtusifolium I. M. Johnst., II: 20, 27; XXIII: 347, 349
Lithospermum officinale L., II: 19, 22, 26; XII: 21; XXIII: 302–303, 309, 318, 320, 341–342, 348, 358, 363; XXVI: 59, 61
Lithospermum officinale subsp. *erythrorhizon* (Sieb. & Zucc.) Hand.-Mazz., XXIII: 341
Lithospermum officinale var. *erythrorhizon* (Sieb. & Zucc.) Maxim., XXIII: 341
Lithospermum officinale var. *japanica* Miquel, XXIII: 341
Lithospermum officinale var. *latifolium* Lehm., II: 26; XXIII: 342
Lithospermum oleaefolium Lapeyr., XXV: 263–264, 266a
Lithospermum ovalifolium Decne., XXVIII: 305
Lithospermum palmeri S. Watson, II: 20, 29; VI: 8–9; XXIII: 355
Lithospermum papillosum Thunberg, XXIII: 317, 321, 358; XXVI: 40, 61, 63
Lithospermum papillosum var. *ambigum* DC., XXIII: 358
Lithospermum parksii I. M. Johnst., XXIII: 306, 309, 313, 317, 319, 343, 345–348; XXVI: 63–64
Lithospermum parksii var. *rugulosum* I. M. Johnst., XXIII: 345–346
Lithospermum persicum Gand., XXIX: 288
Lithospermum peruvianum A. DC., II: 19, 23–24, 54; VI: 7, 11; XXIII: 321, 359; XXVI: 61
Lithospermum petraeum (Tratt.) A. DC., XXV: 273
Lithospermum pilosum Nutt., II: 30; XXIII: 348
Lithospermum plebejum Cham., I: 77
Lithospermum pringlei I. M. Johnst., II: 18, 22; XXIII: 309, 313, 319, 349–351, 363
Lithospermum prostratum Loisel, III: 56; XXV: 263, 267
Lithospermum prostratum Buckley, II: 21; XXIII: 356
Lithospermum purpurocoeruleum L., XXIII: 300; XXVI: 38, 44
Lithospermum ramosum Lehm., I: 53; IV: 43; VI: 37
Lithospermum revolutum B. L. Rob., II: 20, 27; XXIII: 300; XXVI: 34
Lithospermum rosmarinifolium Sessé & Moç., II: 54; XVII: 108–109; XXIII: 352
Lithospermum rosmarinifolium Tenore, II: 54; III: 56; XXV: 263–264
Lithospermum ruderale Douglas ex Lehm, II: 20–21, 30; XXIII: 302–303, 307, 319, 339, 348, 363
Lithospermum ruderale var. *lanceolatum* A. Nelson, II: 30; XXIII: 348
Lithospermum ruderale var. *macrospermum* J. F. Macbr., II: 30; XXIII: 348
Lithospermum ruderale var. *torreyi* J. F. Macbr., II: 30; XXIII: 348

Lithospermum rugosum (Willd.) DC., XXV: 271
Lithospermum scabrum Thunb., XXIII: 321, 359; XXVI: 61
Lithospermum seleri I. M. Johnst., II: 20, 28; XXIII: 350
Lithospermum sericeum Lehm., II: 30; XXIII: 340
Lithospermum sewerzowi (Regel) I. M. Johnst., XXIII: 302, 305, 307–308, 314, 316, 329
Lithospermum shepardae I. M. Johnst., VI: 7, 10; XXIII: 362
Lithospermum sibthorpianum Griseb., XXVI: 40
Lithospermum sordidum Brand, XXIII: 321, 361–362; XXVI: 41
Lithospermum spathulatum M. Martens & Galeotti, II: 24; XXIII: 361
Lithospermum speciosum (Aitch. & Hemsl.) I. M. Johnst., XXIV: 12–13, 16
Lithospermum strictum Lehm., II: 20, 28, 30; VII: 72; XI: 187; XVII: 109; XXIII: 303–304, 307–309, 320, 352–353; XXVI: 33, 63
Lithospermum strictum var. *calycosum* J. F. Macbr., II: 28, 30; XXIII: 349
Lithospermum strigosum Raf., II: 31; XXIII: 339
Lithospermum suffruticosum (L.) A. Kern., XXV: 274
Lithospermum superbum (Aitch. & Hemsl.) I. M. Johnst., XXIV: 11
Lithospermum szechenyi (Kanitz.) I. M. Johnst., XXIII: 301–302, 304–305, 316, 330; XXIV: 8
Lithospermum tenellum Nutt., II: 54
Lithospermum tenuiflorum L., XXVI: 38, 42
Lithospermum tetrastigma (Forssk.) Lam., XXIII: 302, 304, 307–308, 314–315, 321–322, 331, 363
Lithospermum tinctorium (Forssk.) Vahl, XXIII: 321
Lithospermum tinctorium Ruíz & Pav., I: 71; VI: 80; XIII: 381
Lithospermum tingens Roem. & Schult., I: 71; VI: 80
Lithospermum torreyi Nutt., II: 30; XXIII: 348
Lithospermum tournefortii I. M. Johnst., XXIII: 301–303, 305, 307, 309, 314, 317, 336, 363; XXIV: 7; XXVI: 58, 61
Lithospermum tschimganicum B. Fedtsch., XXIII: 303, 307, 317, 335–336, 363; XXVI: 40, 61
Lithospermum tuberosum Rugel, II: 19, 26; XXIII: 310, 318, 341, 352, 363
Lithospermum tubuliflorum Greene, II: 26; XXIII: 302, 304–305, 309, 317, 338, 363
Lithospermum vestitum Wall., XXIII: 325
Lithospermum virginianum L., II: 17, 30; XXIII: 340
Lithospermum viride Greene, II: 20, 29–30; VI: 8–9; XXIII: 301, 303, 307, 309, 320, 352, 355; XXVI: 7
Lithospermum viridiflorum Roxb., XI: 153–154
Lithospermum webbii Coss. & Durrieu, XXIV: 5
Lithospermum zahnii Heldr., III: 56; XXV: 266
Lithospermum zollingeri A. DC., III: 68; V: 48; XXVI: 45
Lobophyllum F. Muell., II: 58
Lobophyllum tetrandrum F. Muell, XX: 13
Lobostema Spreng., XXV: 293
Lobostemon Lehm., III: 44, 51; XXV: 259, 285–286, 289, 292–299; XXVI: 73; XVII: 158–160, 163–164
Lobostemon sect. *Synlobus* (DC. & A. DC.) Gürke, XXV: 294
Lobostemon sect. *Trichobasis* (DC. & A. DC.) Gürke, XXV: 294
Lobostemon acutissimus Buek., III: 51
Lobostemon alpecuruoideus C. H. Wright, III: 51
Lobostemon argenteus Buek., XXV: 293, 296–299
Lobostemon capitiformis DC., III: 51
Lobostemon cephaloideus DC., III: 52
Lobostemon cinereus DC., III: 52
Lobostemon collinus Schltr., III: 52
Lobostemon cryptocephalum Baker, III: 50
Lobostemon curvifolius Buek, III: 52
Lobostemon diversifolius Buek, III: 52
Lobostemon echioides Lehm., III: 52; XXV: 293, 295–299
Lobostemon elongatus Buek, III: 51
Lobostemon eriostachyus H. Buek, III: 51
Lobostemon fastigiatus Buek, III: 52
Lobostemon fruticosus H. Buek, XXV: 296–297

Lobostemon galpinii C. H. Wright, III: 52
Lobostemon glaucophyllus H. Buek, XXV: 296–298
Lobostemon grandiflorus Levyns., XXV: 293
Lobostemon hispidus DC., XXV: 297
Lobostemon latifolius H. Buek, III: 51
Lobostemon lithospermoides (S. Moore) Baker, III: 50; XXIX: 273
Lobostemon microphyllus Buek, III: 52
Lobostemon montanus H. Buek, XXV: 295–298
Lobostemon nitidus Bolus, III: 52
Lobostemon obovatus DC., III: 52
Lobostemon obtusifolius DC., III: 52
Lobostemon oederiaefolius DC., III: 52
Lobostemon paniculaeformis DC., III: 52
Lobostemon pilicaulis Wright, III: 52
Lobostemon pubiflorus Wright, III: 52
Lobostemon sanguineus Schltr., III: 51–52
Lobostemon somalensis Franch., III: 50; XXIX: 271–272
Lobostemon spicatus (Burm.) I. M. Johnst., XXV: 293, 296–298
Lobostemon splendens H. Buek, III: 51
Lobostemon stachydeus DC., III: 52
Lobostemon virgatus Buek, III: 52
Lobostemon wurmbii DC., III: 52
Lycopsis L., II: 4, 8; III: 44, 53–54; VI: 23; XXVII: 159–160, 163
Lycopsis arvensis L., II: 8; VI: 23
Lycopsis axillaris Raf., II: 55
Lycopsis ciliata Willd., II: 7
Lycopsis echioides L., XXIII: 336; XXVI: 58
Lycopsis lutea Desr., II: 7
Lycopsis setosa Lehm., II: 7
Lycopsis vesicaria L., II: 7
Lycopsis virginica L., II: 43; VI: 28

Maccoya F. Muell., III: 65; IX: 14–15
Maccoya plurisepalea F. Muell., III: 65; VII: 76; IX: 15
Maciela Vand., VIII: 64–65
Maciela arborea Steud., VIII: 64
Maciela racemifera Vand. ex Jackson, VIII: 64–65
Macria Ten., VIII: 40, 65
Macria brasiliensis Ten. ex Pasq., VIII: 65
Macria callipticantha Ten., VIII: 40, 65
Macromeria G. Don, II: 4, 13–16; III: 44; VIII: 93; XXVI: 1, 4–18, 20–21, 24, 26, 29–30, 33, 62–63, 65; XXVII: 158–163, 165
Macromeria sect. *Macromerioides* (A. Gray) I. M. Johnst., II: 13; XXVI: 5
Macromeria sect. *Eumacromeria*, II: 13
Macromeria barbigera I. M. Johnst., XI: 189–190; XXVI: 8–12, 16
Macromeria cinerascens A. DC., II: 13, 15; V: 40; VI: 8; XXVI: 6, 64
Macromeria discolor Benth., II: 13–14; VIII: 93; XVII: 110; XXVI: 14
Macromeria exserta G. Don, II: 13, 15–16; XVII: 109; XXVI: 4, 6–12, 17–18, 21
Macromeria exserta var. *imparata* J. F. Macbr., II: 13; XXVI: 17
Macromeria guatemalensis I. M. Johnst., XVI: 232; XXVI: 15
Macromeria guttata Farrer, XXIII: 330
Macromeria hispida M. Martens & Galeotti, II: 13, 16; XXVI: 6–12, 17
Macromeria leontis I. M. Johnst., XI: 188–189; XXVI: 7–11, 15
Macromeria longiflora A. DC., II: 13–14; XXVI: 17
Macromeria longiflora (Sessé & Moç.) G. Don, II: 13–14; VIII: 93; XXVI: 4, 6, 8–11, 14–17; XVII: 109–110; XXVI: 14
Macromeria longiflora sensu I. M. Johnst., XXVI: 12
Macromeria longiflora var. *hispida* M. Martens & Galeotti, II: 13; XXVI: 17
Macromeria notata I. M. Johnst., XXVI: 8
Macromeria pringlei Greenm., II: 13–14; XI: 189; XVI: 233; XXVI: 8–11, 14–17
Macromeria thurberi Mack., II: 14; VIII: 93; XI: 189–190; XVII: 110; XXVI: 12
Macromeria viridiflora DC., II: 14; VIII: 93; XVII: 110; XXVI: 4, 7–13, 29–30, 64
Macromeria viridiflora var. *Thurberi* (A. Gray) I. M. Johnst., XXVI: 12–13
Macrotomia DC., III: 45, 47–49; XXIII: 299, 309–313; XXIV: 18; XXVI: 51, 53
Macrotomia benthami (Wall.) DC., III: 48; XXIII: 313, 333; XXVI: 51
Macrotomia cephalotes (A. DC.) Boiss., III: 48; XXIII: 332

Macrotomia cyanochroa Boiss., XXIII: 334
Macrotomia densiflora (Ledeb.) J. F. Macbr., XXIII: 313, 332
Macrotomia echioides (L.) Boiss., III: 48; XXIII: 336
Macrotomia endochroma Hook. f. & Thomson ex Hend. & Hume, XXIII: 334
Macrotomia euchroma (Royle) Paulsen, III: 48–49; XXIII: 313, 333
Macrotomia euchroma var. *subacaulis* Lipsky, XXIII: 334
Macrotomia grandis Bornm., XXIII: 334
Macrotomia hookeri, III: 48
Macrotomia lindbergiana Rech. f., XXIV: 10; XXVI: 56
Macrotomia onosmoides Regel & M. Smirn., XXIII: 334
Macrotomia perennis (Schrenk) Boiss., XXIII: 334
Macrotomia ugamensis Popov, XXIII: 334
Macroula (variant of *Microula* Benth.), III: 61
Maharanga A. DC., III: 44, 46; XXI: 363; XXVI: 4, 32, 75–76, 78–81; XXVII: 158–160, 165; XXVIII: 302
Maharanga bhutanica I. M. Johnst., XXVIII: 301–302
Maharanga bicolor (Wall.) A. DC., XXI: 365; XXVI: 80
Maharanga borii (C. E. C. Fisch.) I. M. Johnst., XXVI: 81
Maharanga dumetorum (I. M. Johnst.) I. M. Johnst., XXVI: 81
Maharanga egregia (I. M. Johnst.) I. M. Johnst., XXVI: 81; XXVIII: 302
Maharanga emodi (Wall.) A. DC., III: 46; XXI: 361; XXVIII: 302
Maharanga emodi var. *stelligera* I. M. Johnst., XXVIII: 302
Maharanga lycopsioides (C. E. C. Fisch.) I. M. Johnst., XXVI: 81
Maharanga microtoma (I. M. Johnst.) I. M. Johnst., XXVI: 81
Maharanga verruculosum (I. M. Johnst.) I. M. Johnst., XXVI: 81
Maharanga wallichianum A. DC., III: 46; XXI: 364; XXVIII: 302
Mairetis I. M. Johnst., XXIV: 2, 6; XXVI: 61; XXVII: 158–159
Mairetis microsperma (Boiss.) I. M. Johnst., XXIV: 4
Mallotonia Britton, VIII: 66; XI: 161; XVIII: 130; XX: 118
Mallotonia gnaphalodes (L.) Britton, XI: 165; XVIII: 130
Margarospermum Opiz, III: 47; XXVI: 38
Mattia Schult., III: 72
Mattia lateriflorum G. Don, II: 35; VI: 117
Mattia pilosa G. Don, II: 35
Mattiastrum Brand, III: 73
Megacaryon Boiss., III: 44–45, 50; XXV: 283, 293
Megastoma Coss. & Durieu, III: 57–58, 64–65; IV: 5, 18–19; XXIV: 1; XXVII: 158; XXIX: 255–256, 258
Megastoma pusillum Coss. & Durieu, III: 64; XXIX: 256–257
Meladendron Molina, VII: 25
Meladendron chilense Molina, VII: 25, 33
Meneghinia Endl., III: 48; XXIII: 326; XXVI: 51
Meratia A. DC., II: 11; VI: 17
Meratia lindenii A. DC., II: 11; VI: 18
Mertensia Roth, II: 6, 46; III: 43, 57, 59, 66–67; XXV: 269–270; XXVII: 158, 160; XXVIII: 305–306
Mertensia ambigua Piper, IX: 85–86
Mertensia amoena A. Nelson, IX: 85
Mertensia arizonica Greene, IX: 83
Mertensia arizonica var. *leonardi* (Rydb.) I. M. Johnst., IX: 83
Mertensia arizonica var. *umbratilis* (Greenm.) J. F. Macbr., IX: 83
Mertensia bakeri var. *amoena* A. Nelson, IX: 85
Mertensia bakeri var. *subglabra* J. F. Macbr., IX: 84
Mertensia bella Piper, III: 67; XIII: 399; XVI: 237
Mertensia brachycalyx Piper, IX: 85–86
Mertensia coriacea A. Nelson, IX: 84
Mertensia coriacea var. *dilitata* A. Nelson, IX: 84
Mertensia coronata A. Nelson, IX: 84
Mertensia coventryana S. Clay, XXVIII: 306
Mertensia cusickii Piper, IX: 85
Mertensia denticulata Don, IX: 85
Mertensia denticulata of Piper, IX: 85

Mertensia echioides Benth. ex C. B. Clarke, III: 67
Mertensia eplicata J. F. Macbr., IX: 85
Mertensia exserta I. M. Johnst., XXVIII: 305–306
Mertensia foliosa A. Nelson, IX: 83–85
Mertensia foliosa var. *amoena* (A. Nelson) I. M. Johnst., IX: 85
Mertensia foliosa var. *amoena* f. *cusickii* (Piper) I. M. Johnst., IX: 85
Mertensia foliosa var. *nevadensis* J. F. Macbr., IX: 84
Mertensia foliosa var. *pubescens* J. F. Macbr., IX: 85
Mertensia foliosa var. *subcalva* (Piper) J. F. Macbr., IX: 84
Mertensia foliosa var. *subcalva* f. *macbridei* I. M. Johnst., IX: 84
Mertensia infirma Piper, IX: 83
Mertensia intermedia Rydb., IX: 83–84
Mertensia laevigata Piper, IX: 85–87
Mertensia laevigata var. *brachycalyx* J. F. Macbr., IX: 85
Mertensia leonardi Rydb., IX: 83
Mertensia leptophylla Piper, IX: 85–86
Mertensia maritima Gray, III: 67
Mertensia membranacea Rydberg, IX: 85–86
Mertensia meyeriana J. F. Macbr., XXVIII: 304–305
Mertensia moltkioides C. B. Clarke, XXVIII: 305
Mertensia nemorosa (A. DC.) I. M. Johnst., XXVIII: 305
Mertensia nevadensis A. Nelson, IX: 84
Mertensia nutans Howell, IX: 84
Mertensia nutans subsp. *subcalva* Piper, IV: 84
Mertensia ovalifolia Brand, XXVIII: 305
Mertensia paniculata (Aiton) G. Don, IX: 85–86
Mertensia paniculata var. *subcordata* (Greene) J. F. Macbr., IX: 85–87
Mertensia paniculata var. *subcordata* f. *leptophylla* J. F. Macbr., IX: 85
Mertensia parviflora Don, XXVIII: 305
Mertensia platyphylla A. Heller, IX: 85–87
Mertensia popovii P. Rubtzov, XXVIII: 304–305
Mertensia pratensis var. *borealis* J. F. Macbr., IX: 85–87
Mertensia primuloides C. B. Clarke, XXVIII: 305
Mertensia pubescens Piper, IX: 85
Mertensia racemosa (Royle) C. B. Clarke, XXVIII: 305
Mertensia rivularia DC., III: 67
Mertensia sampsonii Tidestr., IX: 83
Mertensia sendtneri (Boiss.) Janka, XXV: 276
Mertensia serbica Janka, XXV: 276
Mertensia stenoloba Greene, IX: 83–84
Mertensia subcordata Greene, IX: 85–86
Mertensia symphytoides Greene, IX: 84
Mertensia trollii (Melch.) I. M. Johnst., XXVIII: 306
Mertensia tubifera Rydb., IX: 84
Mertensia umbratilis Greenm., IX: 83
Mertensia virginiana (L.) DC., II: 55
Mertensia virginica (L.) DC., III: 67
Mespilus americana, XV: 347–348
Messerschmidia L. ex Hebenstr., VIII: 72; XI: 145, 161–168; XVIII: 130; XX: 2, 118
Messerschmidia Murray, VIII: 72–73
Messerschmidia Roem. & Schult., VIII: 72–73
Messerschmidia angustifolia Lam., XI: 168
Messerschmidia argentea (L.) I. M. Johnst., XI: 163–164; XX: 118, 121
Messerschmidia argunia Gaertn., XI: 164
Messerschmidia argusia L., VIII: 73; XI: 164; XX: 119
Messerschmidia argyzia Murray, XI: 164; XX: 119
Messerschmidia cancellata Asso, XI: 168
Messerschmidia floribunda Salisb., XI: 168
Messerschmidia fruticosa L. f., XI: 168
Messerschmidia gnaphalodes (L.) I. M. Johnst., XI: 164–165; XVIII: 130
Messerschmidia hispida Benth., XI: 168
Messerschmidia incana G. Mey., X: 56, 62, 64
Messerschmidia membranacea Miers, VIII: 88
Messerschmidia montana (Lour.) Roem. & Schult., XI: 153
Messerschmidia punctata Spreng., XVIII: 131
Messerschmidia rosmarinifolia Willd. ex, XI: 164; XX: 119–120
Messerschmidia salicifolia Gardner, VIII: 88

Messerschmidia siberica L., XI: 163–164; XX: 118
Messerschmidia siberica var. *latifolia* (DC.) H. Hara, XX: 119–120
Messerschmidia siberica var. *typica*, XX: 120
Messerschmidia subulata Gardner, VIII: 82
Messerschmidia syringifolia (Vahl) Roem. & Schult., X: 48
Messerschmidiae antiquae Roem. & Schult., VIII: 73
Messerschmidiae vero Roem. & Schult., VIII: 73
Messerschmidtia G. Don, VIII: 72; XI: 162–163
Messerschmidtia Humb., Bonpl. & Kunth, VIII: 73
Messerschmidtia of Miers, VIII: 72
Messerschmidtia candidula Miers, VIII: 84
Messerschmidtia elegans G. Don, VIII: 78
Messerschmidtia fruticosa L. f., VIII: 73
Messerschmidtia hirsutissima Roem. & Schult., VIII: 68
Messerschmidtia macroloba Miers, VIII: 77
Messerschmidtia martii Miers, VIII: 85
Messerschmidtia organensis Miers, VIII: 77
Messerschmidtia paniculata G. Don, VIII: 78
Messerschmidtia pohlii Miers, VIII: 84
Messerschmidtia ramiflora Miers, VIII: 77
Messerschmidtia salzmanii Miers, VIII: 87
Messerschmidtia subsessilis G. Don, VIII: 83
Messerschmidtia vicina Miers, VIII: 85
Messerschmidtia vauthieri Miers, VIII: 77
Messerschmidtia valga Miers, VIII: 85
Messerschmidtia villosa Miers, VIII: 84
Messershmidia L., VIII: 72–74; XI: 161, 163
Messersmedia, VIII: 74
Messersmidia L., VIII: 74
Messersmidia argusia L., XI: 164
Microcaryum I. M. Johnst., III: 58, 63; IV: 18; XIV: 52
Microcaryum diffusum Brand, XIV: 51
Microcaryum duthieanum Brand, XIV: 51
Microcaryum pygmaeum (C. B. Clarke) I. M. Johnst., III: 64
Microcaryum trichocarpum Hand.-Mazz., V: 46; XIV: 51
Microcaryum turkestanicum (Franch.) Brand, XIV: 52
Microula Benth., III: 58, 61; IV: 18; V: 49; VII: 83; XXII: 72
Microula benthamii C. B. Clarke, III: 62
Microula blepharolepis (Maxim.) I. M. Johnst., XXII: 72
Microula ciliaris (Bureau & Franch.) I. M. Johnst., III: 62
Microula diffusa (Maxim.) I. M. Johnst., XXII: 72
Microula forrestii (Diels) I. M. Johnst., VII: 83
Microula hirsuta I. M. Johnst., V: 48–49; VII: 83
Microula myosotoidea (Franch.) I. M. Johnst., III: 62; V: 49; VII: 83
Microula ovalifolia (Bureau & Franch.) I. M. Johnst., III: 62
Microula pustulata (C. B. Clarke) Duthie, III: 62; V: 49
Microula rockii I. M. Johnst., VII: 82
Microula sikkimensis (C. B. Clarke) Hemsl., III: 61–62; V: 49
Microula tangutica Maxim., III: 62
Microula tibetica Benth., III: 62
Microula trichocarpa (Maxim.) I. M. Johnst., VII: 83
Mimophyton Greenm., II: 5, 31; III: 69; XVI: 235
Mimophyton omphalodoides Greenm., II: 31
Mitreola pedicellata Benth., XII: 10
Moltkia Lehm., III: 45, 48–49, 55; XXIII: 299–303; XXIV: 3; XXV: 258, 263, 268–275, 278–279, 285, 292; XXVI: 44, 55, 61; XXVII: 158–161, 164–165; XXVIII: 306
Moltkia sect. *Echianthus* (Vis.) I. M. Johnst., XXV: 273; XXVI: 55
Moltkia sect. *Eumoltkia*, XXV: 271, 278–281; XXVI: 55
Moltkia sect. *Lithospermoideae* Boiss., XXV: 273
Moltkia anatolica Boiss., XXV: 271
Moltkia angustiflora DC., XXV: 272
Moltkia aurea Boiss., XXV: 270, 272, 276
Moltkia caerulea (Willd.) Lehm., XXV: 268, 270–273
Moltkia callosa (Vahl) Wettst., III: 48; XXIV: 3; XXV: 269
Moltkia ciliata (Forssk.) Maire, XXIV: 3
Moltkia dorfleri Wettst., XXV: 270, 274–275

Moltkia graminifolia (Viv.) Nyman, XXV: 274
Moltkia kemal-paschii Bornm., XXV: 272
Moltkia longiflora (Bertol.) Wettst., XXV: 270, 272
Moltkia parviflora (Decne.) Wettst., XXV: 269
Moltkia parviflora (Decne.) C. B. Clarke, XXVIII: 305–306
Moltkia petraea (Tratt.) Griseb., XXV: 270, 273
Moltkia punctata Lehm., XXV: 268, 271
Moltkia sendtneri Boiss., XXV: 276
Moltkia suffruticosa (L.) Brand, XXV: 270, 273–274
Moltkia trollii Melch., XXVIII: 306
Moltkiopsis I. M. Johnst., XXIV: 2–3, 5; XXV: 269, 282; XXVI: 61; XXVII: 158–160, 164
Moltkiopsis ciliata (Forssk.) I. M. Johnst., XXIV: 3
Moltkiopsis ciliata (Forssk.) Maire, XXIV: 9
Monimiaceae Juss., IV: 106
Monomesia Raf., II: 58
Montjolya Friesen, XVII: 86
Montjolya brownei Friesen, XIX: 177–178
Montjolya guianensis (Desv.) Friesen, X: 36
Montjolya tomentosa (Lam.) Friesen, X: 41
Moritzia DC., II: 4, 11–12; III: 44; VI: 5–6, 14, 17; XXVII: 158
Moritzia ciliata (Cham.) DC., II: 11; VI: 17, 19
Moritzia ciliata var. *hirsuta* Fresen., II: 11; VI: 19
Moritzia dasyantha Fresen., II: 12; VI: 16
Moritzia dasyantha var. *sellowiana* (Cham.) Brand, XI: 194
Moritzia dusenii I. M. Johnst., VI: 17–19
Moritzia lindenii (A. DC.) Benth., II: 11; VI: 17, 19
Moritzia sellowiana (Cham.) Fresen., II: 13; VI: 17; XI: 194
Munbya Boiss., III: 48; XXVI: 51
Munbya cephalotes (A. DC.) Boiss., XXIII: 332
Munbya conglobata Boiss., XXIII: 332
Munbya cyanochroa Boiss., XXIII: 334
Munbya densiflora (Ledeb.) Boiss., XXIII: 331
Munbya perennis (Schrenk) Boiss., XXIII: 334
Myosotidium Hook., III: 58, 60
Myosotidium hortensia (Decne.) Baill., III: 60
Myosotis L., II: 5, 40–44; III: 43, 58, 62–63, 66, 73; IV: 5; VI: 5, 25–30; IX: 76; XII: 5; XXIII: 323; XXVII: 158–161; XXX: 17
Myosotis alba Colla, I: 70; VI: 78
Myosotis albida Humb., Bonpl. & Kunth, I: 53; IV: 43; VI: 37
Myosotis albiflora Banks & Sol., I: 79–80; II: 40–41; VI: 26, 28
Myosotis alpestris F. W. Schmidt, II: 40, 42–43
Myosotis antarctica Hook. f., II: 40–41; VI: 26–27
Myosotis antarctica f. *gracilior* Skotts., II: 41; VI: 27–28
Myosotis apula L., XXIV: 6
Myosotis arenaria Schrad., II: 43
Myosotis aretioides Cham., II: 52
Myosotis arvensis (L.) Hill, II: 41, 43, 47
Myosotis arvensis var. *versicolor* Pers., II: 43
Myosotis azorica H. C. Watson, II: 40, 42; VI: 26, 28–29
Myosotis azorica sensu I. M. Johnst., XXX: 16–17
Myosotis berroi Arechav., I: 51; VI: 13–14
Myosotis caespitosa Schultz, II: 42
Myosotis caespitosa var. *laxa* A. DC., II: 41
Myosotis californica Fisch. & C. A. Mey., I: 78; IX: 79, 81; XI: 192
Myosotis chorisiana Cham., I: 77; IX: 48–49
Myosotis corymbosa Roem. & Schult., I: 54; VI: 96
Myosotis cymosa Nutt., II: 55
Myosotis daurica Pall. ex Roem. & Schult., XIV: 53
Myosotis deflexa Wahlenb., I: 45
Myosotis flaccida Dougl., IV: 99
Myosotis foliosa Lehm., VI: 30; XXIII: 361
Myosotis fulva Hook. & Arn., I: 70; VI: 78
Myosotis gracilis Ruíz & Pav., II: 36; VI: 116; VII: 81; IX: 35
Myosotis grandiflora Humb., Bonpl. & Kunth, II: 55; V: 40–41; VI: 30; XXIII: 361
Myosotis granulosa Ruíz & Pav., I: 54; VI: 45
Myosotis hookeri C. B. Clarke, III: 66; XI: 201
Myosotis hookeri Douglas, XI: 201
Myosotis humilus Ruíz & Pav., I: 75; VI: 85
Myosotis inflexa Engelm., II: 43
Myosotis intermedia Link, II: 43
Myosotis involucrata Steven, III: 54
Myosotis lappula L., II: 47; III: 60
Myosotis latifolia Poir., II: 42; XXX: 16–17
Myosotis laxa Lehm., II: 40–41; VI: 26, 30

Myosotis linearis Colla, VI: 69
Myosotis lingulata Lehm., II: 42
Myosotis lutea Pers., II: 43
Myosotis macrocalycina Coss., II: 42
Myosotis macrophylla M. Bieb., III: 54
Myosotis macrosperma Engelm., II: 43
Myosotis maritima Hochst., II: 42
Myosotis mexicana Sessé & Moç., II: 55; XII: 14; XVII: 108
Myosotis micrantha Pall., II: 41, 43
Myosotis microcarpa Wall., XII: 8
Myosotis moltkioides Benth., XXVIII: 305
Myosotis muricata Hook. & Arn., IV: 70
Myosotis oblongata Link, II: 42
Myosotis obovata Ledeb., III: 64; XIV: 53
Myosotis olympica Boiss., II: 42
Myosotis orientalis Schenk, III: 55
Myosotis palustris Lam., II: 41; VI: 29
Myosotis palustris var. *laxa* A. Gray, II: 41
Myosotis palustris var. *micrantha* Lehm., II: 42
Myosotis peduncularis Trevir., II: 46; XII: 8
Myosotis pilosa G. Don, VI: 117
Myosotis procumbens Colla, I: 80; VI: 89–90
Myosotis pulvinaris Hook., III: 66
Myosotis pyrenaica var. *alpestris* Schinz & Thell., II: 42
Myosotis redowskii Hornem., VI: 102; IX: 92
Myosotis rupicola Sm., II: 42
Myosotis scorpioides L., II: 40–41; VI: 26, 29
Myosotis scorpioides var. *arvensis* L., II: 43
Myosotis scorpioides var. *palustris* L., II: 41; VI: 29
Myosotis scouleri Hook. & Arn., I: 75; IX: 51, 53; XI: 192–193
Myosotis sericea Nutt., II: 55
Myosotis silvatica subsp. *latifolia* (Poir.) Vestergr., XXX: 16
Myosotis sparsiflora J. C. Mikan, III: 62
Myosotis stricta Link, II: 43
Myosotis sylvatica Hoffm., II: 41–43
Myosotis sylvatica sensu Californian Botanists, XXX: 16–17
Myosotis sylvatica var. *alpestris* W. D. J. Koch, II: 42
Myosotis tenellus Nutt., I: 72
Myosotis texanae Hook., IV: 56
Myosotis uniflora Hook., III: 66
Myosotis uruguayensis Arech., II: 55; VI: 14
Myosotis verna Nutt., II: 43; VI: 28
Myosotis verna var. *macrosperma* Chapm., II: 43
Myosotis versicolor (Pers.) Sm., II: 41, 43
Myosotis versicolor var. *americana* A. DC., VI: 28
Myosotis virginiana L., I: 45
Myosotis virginica (L.) Britton, Sterns, & Poggenb., II: 41, 43; V: 42–43; VI: 26–28; VII: 75
Myosotis virginica var. *macrosperma* Fernald, II: 43

Navarretia Ruíz & Pav., IX: 18
Neatostema I. M. Johnst., XXIV: 2, 5–6; XXVI: 38, 61; XXVII: 158–161
Neatostema apulum (L.) I. M. Johnst., XXIV: 6
Nephrocarya Candargy, III: 57
Nesocaryum I. M. Johnst., VI: 6, 25, 74–75
Nesocaryum stylosum (Phil.) I. M. Johnst., VI: 74; VII: 73
Nomosa I. M. Johnst., XXVI: 2, 24–27, 29–30, 62–63; XXVII: 158–160, 165
Nomosa rosei I. M. Johnst., XXVI: 25
Nonea Medik., II: 3, 7; III: 53, 56–57; XXIII: 315; XXVII: 159
Nonea alpestris, III: 57
Nonea ciliata DC., II: 7
Nonea heterostemon Murb., III: 56
Nonea lutea (Desr.) DC., II: 7
Nonea multicolor Kunze, III: 56
Nonea nigricans DC., II: 7
Nonea obtusifolia (Willd.) DC., III: 57
Nonea phaneranthera Viv., III: 56
Nonea pulla (L.) DC.
Nonea rosea (M. Bieb.) Link, II: 7
Nonea setosa Roem. & Schult., II: 7
Nonea vesicaria (L.) Reichenb., II: 7
Nonea violacea DC., III: 56
Nordmannia Ledeb., III: 53

Ocotea commutata Nees, X: 44
Octosomatium Gagnep., XXII: 76–77
Octosomatium kerrii Gagnep., XXII: 75–76
Omphalium Roth, III: 71
Omphalodes Moench, II: 5, 31, 39–40; III: 69, 71, 73; V: 47; XI: 205; XII: 1, 5–6, 25; XIV: 53
Omphalodes acuminata B. L. Rob., II: 39

Omphalodes aliena A. Gray, II: 39; XI: 205; XVII: 105
Omphalodes blepharolepis Maxim., XXII: 72
Omphalodes bodinieri H. Lév., XII: 10
Omphalodes cardiophylla A. Gray, II: 39
Omphalodes cavileriei H. Lév., XII: 6
Omphalodes cordata Hemsl., XII: 5
Omphalodes diffusa Maxim., XXII: 72
Omphalodes erecta I. M. Johnst., XI: 204–205
Omphalodes esquirolii H. Lév., XII: 6
Omphalodes forrestii Diels, VII: 83
Omphalodes howardii A. Gray, II: 52
Omphalodes linifolia (L.) Moench, II: 39
Omphalodes mairei H. Lév., XII: 4
Omphalodes mexicana S. Watson, II: 39–40
Omphalodes moupinensis Franch., XII: 5
Omphalodes nana var. *aretioides* A. Gray, II: 52
Omphalodes nana var. *chamissonis* A. Gray, II: 52
Omphalodes scorpioides Schrank, III: 71
Omphalodes sericea Maxim., XII: 25
Omphalodes thompsoni C. B. Clarke, XIV: 53
Omphalodes trichocarpa Maxim., VII: 83
Omphalodes vaniotii H. Lév., XII: 6–7
Onochiles (Tourn.) Bubani, XXV: 278
Onochilis Mart., III: 57
Onosma L., III: 44–46; XXI: 201–225, 344–368; XXIV: 1; XXVI: 4, 25–27, 29–30, 32, 67, 69–81; XXVII: 158–162, 164–165
Onosma adenopus I. M. Johnst., XXI: 204, 224, 345
Onosma afganicum Bornm., XXI: 367
Onosma album W. W. Sm. & J. F. Jeffrey, XXI: 204, 208, 217, 225; XXVI: 81
Onosma arenarium Waldst. & Kit., XXVI: 77
Onosma barbigerum I. M. Johnst., XXI: 203, 212–214; XXVI: 77
Onosma bicolor Wall., XXI: 206, 353, 357, 360, 363–367
Onosma borii C. E. C. Fisch., XXI: 206, 357–360, 364; XXVI: 81
Onosma bracteatum Wall., XXI: 205, 347; XXVI: 77
Onosma brachylinum (I. M. Johnst.) I. M. Johnst., XXVIII: 300
Onosma burmanicum Collett & Hemsl., XXI: 204, 218
Onosma caerulea Willd., XXV: 271
Onosma capsicum Gruner, XXI: 351
Onosma chitralicum I. M. Johnst., XXI: 203, 209; XXVI: 77
Onosma cingulatum W. W. Sm., XXI: 206, 355–356; XXVI: 80–81
Onosma confertum W. W. Sm., XXI: 203, 208, 216–217, 225; XXVI: 77, 81
Onosma dichroanthum Boiss., XXI: 205, 211, 214, 350–352; XXVI: 77
Onosma dumetorum I. M. Johnst., XXI: 206, 361, 364; XXVI: 81
Onosma echioides C. B. Clarke, XIV: 51; XXI: 209
Onosma echioides L., XIV: 51; XXI: 211; XXVI: 73, 77
Onosma egregium I. M. Johnst., XXI: 206, 360, 364–366–367; XXVI: 81
Onosma emodi Wall., XXI: 206, 359, 361–367; XXVI: 78
Onosma exsertum Hemsl., XXI: 204, 208, 221; XXVI: 81
Onosma farrerii I. M. Johnst., XXI: 202, 205, 218, 345, 347
Onosma fistulosum I. M. Johnst., XXI: 204, 208, 222; XXVI: 81
Onosma forrestii W. W. Sm., XXI: 216–217
Onosma gmelini Ledeb., XXI: 211
Onosma griffithii Vatke, XXI: 203, 212–214; XXVI: 77
Onosma hispidum Wall., XXI: 203, 209, 211; XXVI: 77
Onosma hispidum var. *kashmiricum* (I. M. Johnst.) I. M. Johnst., XXI: 210–211
Onosma hookeri C. B. Clarke, XXI: 205, 349
Onosma hookeri subsp. *wardii* Stapf., XXI: 215, 350
Onosma hookeri var. *intermedium* I. M. Johnst., XXI: 215–216, 350
Onosma hookeri var. *longiflorum* Duthie ex Stapf, XXI: 350
Onosma hookeri var. *wardii* W. W. Smith, XXI: 215, 350
Onosma hookeri var. *wardii* Stapf, XXI: 350
Onosma hypoleucum I. M. Johnst., XXI: 204, 220, 347, 349
Onosma kashmirica I. M. Johnst., XIV: 50; XXI: 210

Onosma khyberianum I. M. Johnst., XXI: 203, 211, 213; XXVI: 77
Onosma limitaneum I. M. Johnst., XXI: 205, 354–355; XXVI: 76–77
Onosma limitaneum var. *majus* I. M. Johnst., XXI: 213, 354–355
Onosma limitaneum var. *parviflorum* I. M. Johnst., XXI: 354
Onosma longiflorum Duthie, XXI: 350
Onosma longilobum Bunge, XXVI: 71–72, 76, 81
Onosma lycopsioides C. E. C. Fisch., XXI: 202, 206, 357–361, 364; XXVI: 81
Onosma macrocephala D. Don, XXI: 347, 349
Onosma mertensioides I. M. Johnst., XXI: 205, 353; XXVI: 76
Onosma microstoma I. M. Johnst., XXI: 206, 359–360, 364; XXVI: 81
Onosma multiramosum Hand.-Mazz., XXI: 202, 204, 223–225, 345; XXVI: 67, 76–77
Onosma multiramosum var. *mekongense* I. M. Johnst., XXI: 223
Onosma oblongifolium W. W. Sm. & J. F. Jeffrey, XXI: 203, 208
Onosma paniculatum Bureau & Franch., XXI: 203, 206, 209, 217; XXVI: 81
Onosma paniculatum var. *hirsutistylum* Lingelsh. & Borza, XX: 206
Onosma polyphyllum Ledeb., XXVI: 81
Onosma pyramidale Hooker, XXI: 205, 352–353; XXVI: 75, 77, 79–80
Onosma rostellatum Lehm., XXVI: 78
Onosma saxatile (Pall.) Lehm., XXVI: 47
Onosma sericeum Willd., XXVI: 73, 75
Onosma setosum Ledeb., XIV: 51; XXI: 352
Onosma setosum var. *dichroanthum* Boiss., XXI: 214, 350
Onosma sinicum Diels, XXI: 204, 217, 346
Onosma stenosiphon Boiss., XXI: 214, 355; XXVI: 75–76, 78, 81
Onosma strigosum Humb., Bonpl. & Kunth, II: 15; XXVI: 27, 29
Onosma syriacum Labill., III: 46; XXVI: 70
Onosma thompsonii C. B. Clarke, XXI: 202, 205, 220–221, 346
Onosma tricerospermum Lag., XXVII: 162
Onosma trinervium Lehm., II: 15; XXVI: 29
Onosma tsiangii I. M. Johnst., XXI: 206, 356
Onosma verruculosum I. M. Johnst., XXI: 206, 356–357, 360, 364; XXVI: 81
Onosma versicolor Griff., XXI: 368
Onosma vestitum Wall., XXI: 361, 364
Onosma visianii Clem., XXI: 352
Onosma waddellii Duthie, XXI: 204, 214–215, 344–345; XXVI: 76; XXVIII: 300
Onosma waddellii var. *brachylinum* I. M. Johnst., XXI: 345; XXVIII: 300
Onosma waddellii var. *typicum*, XXI: 345
Onosma wallichianum (A. DC.) Benth. ex C. B. Clarke, XXI: 206, 363–367
Onosma waltonii Duthie, XXI: 203, 214–215
Onosma wardii (W. W. Smith) I. M. Johnst., XXI: 203, 215–216; XXVI: 76
Onosmidium Walp., II: 17
Onosmodium Michx., II: 4, 15–18, 27; III: 44; XI: 187; XXIII: 303; XXVI: 1, 6–7, 18–24, 26, 29–30, 33, 35, 62–63, 75; XXVII: 158–160, 162, 165
Onosmodium sect. *Macromerioides* A. Gray, XXVI: 4
Onosmodium bejariense DC., II: 17–18, 23; XII: 22; XXVI: 20–21, 24
Onosmodium carolinianum (Lam.) DC., II: 31; XXIII: 339
Onosmodium carolinianum var. *molle* A. Gray, II: 18
Onosmodium discolor (Benth.) J. F. Macbr., II: 14; VIII: 93; XXVI: 14
Onosmodium dodrantale I. M. Johnst., XII: 22; XXVI: 20–24, 30
Onosmodium eriocaulon A. DC., II: 55; V: 41
Onosmodium helleri Small, II: 17, 26; XXVI: 20–21, 24
Onosmodium hispidissimum Mack., II: 17–18; XXVI: 20, 22, 24
Onosmodium hispidissimum var. *macrospermum* Mack., II: 18
Onosmodium hispidum Michx., II: 17; XXVI: 18
Onosmodium longiflorum (G. Don) J. F. Macbr., II: 14; VIII: 93; XXVI: 14
Onosmodium longiflorum var. *hispidum* (M. Martens & Galeotti) J. F. Macbr., II: 13–14; XXVI: 17
Onosmodium molle Michx., II: 17–18; XXVI: 18, 20, 24

Onosmodium molle var. *occidentale* (Mack.) I. M. Johnst., II: 18
Onosmodium nigrum Raf., II: 17
Onosmodium occidentale Mack., II: 18; XXVI: 20, 22, 24
Onosmodium occidentale var. *sylvestre* Mack., II: 18
Onosmodium pringlei (Greenm.) J. F. Macbr., II: 14; XXVI: 15
Onosmodium revolutum (B. L. Rob.) J. F. Macbr., II: 27; XXVI: 20, 34
Onosmodium scabrum Roem. & Schult., II: 17
Onosmodium strigosum (Humb., Bonpl. & Kunth) G. Don, II: 15; XXVI: 20, 29
Onosmodium subsetosum Mack. & Bush, II: 17–18; XXVI: 20–21, 24
Onosmodium thurberi A. Gray, II: 14; XVII: 110; XXVI: 12
Onosmodium unicum J. F. Macbr., II: 17; XII: 22; XXVI: 20–24, 30
Onosmodium virginianum (L.) A. DC., II: 17; XXVI: 20, 22–24, 63
Onosmodium virginianum var. *hirsutum* Mack., II: 17
Onosmodium virginicum L., XXVI: 18
Oplexion Raf., III: 51; XXV: 293
Oreocarya Greene, I: 62; II: 6, 46, 54–55III: 57–58; IV: 5–6, 14, 17–18, 22; VI: 31–32; IX: 11; XXIII: 306
Oreocarya affinis Greene, IV: 106
Oreocarya capitata Eastw., XIV: 66
Oreocarya confertifolia Greene, IV: 105
Oreocarya depressa (Jones) J. F. Macbr., IV: 104; XVI: 240
Oreocarya echinoides (Jones) J. F. Macbr., IV: 104–105
Oreocarya eulophus Rydb., IV: 105
Oreocarya fulvocanescens (A. Gray) Greene, IV: 105–106
Oreocarya fulvocanescens J. F. Macbr., IV: 104–105
Oreocarya glomerata (Pursh) Greene, IV: 105
Oreocarya holoptera Gray, IV: 31
Oreocarya humilis Greene, IX: 87–88
Oreocarya leucophaea (Douglas) Greene, IV: 105
Oreocarya nubigena Greene, XIII: 393
Oreocarya oblata (Jones) J. F. Macbr., IV: 105
Oreocarya palmeri (Gray) Greene, IV: 106
Oreocarya paysonii J. F. Macbr., XXXI: 160
Oreocarya pulvinata A. Nelson, II: 52
Oreocarya sericea (Gray) Greene, IV: 106
Oreocarya setosissima (Gray) Greene, IV: 106
Oreocarya sp., IV: 105–106
Oreocarya suffruticosa (Torr.) Greene, IV: 105
Oreocarya suffruticosa var. *abortiva* (M. E. Jones) J. F. Macbr., IV: 105
Oreocarya virgata (Porter) Greene, IV: 106
Oreocarya virginensis (Jones) J. F. Macbr., IV: 105
Oreocarya wetherillii Eastw., IV: 105
Oreocharis Lindl., III: 67
Oreogenia I. M. Johnst., III: 59, 65–66; IV: 18V: 45; XIV: 52
Oreogenia arassanica (Fedtsch.) Brand, XIV: 52
Oreogenia duthieana Brand, XIV: 51
Oreogenia ferghanica Brand, XIV: 52
Oreogenia munroi (C. B. Clarke) I. M. Johnst., III: 66; V: 46
Oreogenia paulsenii (Fedtsch.) Brand, XIV: 52
Oreogenia persica (Boiss.) Brand, XIV: 52
Orogenia Wats., V: 45
Orthostachys Spach, VII: 46
Oskampia Moench, III: 57
Oskampia Raf., VIII: 66–67; XI: 146
Oskampia hirsuta Raf., VIII: 66–67; XI: 146
Oskampia scandens Raf., VIII: 66–67; XI: 146
Osmidium Walp., XXVI: 18
Osmodium Raf., II: 17; XXVI: 18

Paracaryum (A. DC.) Boiss, III: 70, 72–73; XXIII: 306; XXVII: 158
Paracaryum brachytuba Diels, XII: 25
Paracaryum glochidiatum Benth., I: 45
Paracaryum thomsoni C. B. Clarke, III: 72
Paradigma Miers, VIII: 41
Patagonula americana L., VIII: 64
Patagonula glaziovii Mez, VIII: 59
Pavonia Dombey ex Lam., VIII: 40
Pectocarya DC. in Meisn., II: 5, 34–39; III: 69, 76; VI: 5, 107, 113–118; VII: 81; XIII: 401; XXVI: 43; XXVII: 158–159
Pectocarya sect. *Eupectocarya*, III: 77
Pectocarya anomala I. M. Johnst., II: 34–35; VI: 113–114

Pectocarya boliviana (I. M. Johnst.) I. M. Johnst., VI: 114, 116, 118
Pectocarya chilensis DC., VI: 116
Pectocarya chilensis var. *californica* Torr., II: 36; V: 43; VI: 114
Pectocarya dimorpha (I. M. Johnst.) I. M. Johnst., VI: 113, 115
Pectocarya gracilis (Ruíz & Pav.) I. M. Johnst., II: 34–37; III: 77; VI: 113, 115; VII: 81
Pectocarya gracilis var. *boliviana* I. M. Johnst., II: 34, 37; III: 76; VI: 118
Pectocarya gracilis var. *dimorpha* I. M. Johnst., II: 34, 37–38; VI: 115
Pectocarya gracilis var. *genuina*, II: 34, 36–37; VI: 116
Pectocarya gracilis var. *platycarpa* Munz & I. M. Johnst., II: 34, 36; VII: 81
Pectocarya heterocarpa (I. M. Johnst.) I. M. Johnst., XIII: 399–402
Pectocarya lateriflora (Lam.) DC., II: 34–35; III: 76–77; VI: 113–115, 117–118
Pectocarya lateriflora of Reiche, VI: 116
Pectocarya lateriflora var. *nuttallii* Brand, II: 49; IX: 92–93
Pectocarya linearis DC., II: 36; V: 43; VI: 116; VII: 75, 81; IX: 96–98
Pectocarya linearis var. *ferocula* I. M. Johnst., IX: 95–96, 98; XIII: 382
Pectocarya linearis var. *penicillata* Jones, II: 37
Pectocarya miser A. Nelson, II: 37
Pectocarya penicillata (Hook. & Arn.) A. DC., II: 34–37; IX: 97; XIII: 399–400
Pectocarya penicillata var. *genuina*, II: 34, 37–38
Pectocarya penicillata var. *heterocarpa* I. M. Johnst., II: 35, 37–38; IX: 98; XIII: 399
Pectocarya peninsularis I. M. Johnst., XIII: 401
Pectocarya platycarpa Munz & I. M. Johnst., VII: 81; IX: 98
Pectocarya pusilla (A. DC.) A. Gray, II: 35, 38; V: 43; VI: 113–114; VII: 75; XIII: 382
Pectocarya pusilla var. *flagillaris* Brand, II: 38; VI: 114
Pectocarya recurvata I. M. Johnst., IX: 97
Pectocarya setosa A. Gray, II: 35, 38; VI: 113
Pectocarya setosa var. *aptera* I. M. Johnst., II: 35, 38
Pectocarya setosa var. *genuina*, II: 35, 38
Pectocarya setosa var. *holoptera* I. M. Johnst., II: 35, 39
Pentaglottis Tausch, III: 55
Pentalophus A. DC., II: 18; VI: 7; XXVI: 59
Pentalophus longiflorus A. DC., II: 24
Pentalophus mandanensis A. DC., II: 25
Penthysa Raf., III: 51; XXV: 293
Periclymenum rectum Sloane, X: 34; XVII: 100
Perittostema I. M. Johnst., XXV: 2, 30–33, 62–63; XXVII: 158–160, 165
Perittostema pinetorum (I. M. Johnst.) I. M. Johnst., XXV: 31
Phacelia Juss., XXV: 288
Phacelia magellanica (Lam.) Coville, VII: 72
Phaneranthera Meisn., III: 56
Philonomia DC., XX: 13; XVII: 110; XXVI: 4
Physoclada (DC.) Lindl., VIII: 46
Picotia Roem. & Schult., III: 71
Pilocordia Lindl., VIII: 47
Piloisia Raf., VIII: 18
Piloisia globosa Raf., VIII: 18
Pioctonon Raf., VII: 46
Pioctonon antillanum Raf., VII: 46, 69–70; XVIII: 136
Pioctonon ternatum Raf., VII: 69; XVIII: 135
Piptocalyx Torr., I: 54–55; II: 45; IV: 5–6, 19, 21, 25; VI: 31
Piptocalyx circumscissus Torr., I: 55; IV: 41; VII: 75
Piptocalyx dichotomus Greene, I: 55; IV: 42
Piptocalyx moorei Oliv., IV: 106
Pittonia Plumier ex Adans., VIII: 66–67; XI: 146
Plagiobothrys Fisch. & C. A. Mey., I: 48, 55–80; II: 3, 6, 46, 53; III: 43, 59, 61, 67–68; IV: 5, 18–20, 22, 42, 48; VI: 6, 25, 73, 75–98; VII: 76–82; IX: 5–82; XXVII: 159, 161
Plagiobothrys * *Ambigui* A. Gray, I: 58
Plagiobothrys sect. *Allocarya* (Greene) I. M. Johnst., III: 68; IV: 5, 103; VI: 76, 82, 90, 92, 97; VII: 75–87; IX: 5–82
Plagiobothrys sect. *Amsinckiopsis* I. M. Johnst., I: 59; IX: 12–13
Plagiobothrys sect. *Echidocarya* (A. Gray) I. M. Johnst., VI: 76; VII: 79; IX: 10–11, 13; XXVI: 48

Plagiobothrys sect. *Euplagiobothrys*, III: 61; VI: 76, 80; IX: 10, 12; XVI: 236
Plagiobothrys sect. *Genuini*, I: 57
Plagiobothrys sect. *Hypsoula* Greene, I: 58
Plagiobothrys sect. *Havilandia* (Stapf) I. M. Johnst., III: 68
Plagiobothrys sect. *Sonnea* (Greene) I. M. Johnst., I: 69; IX: 10, 12–13
Plagiobothrys Echinaceae Piper, IX: 13
Plagiobothrys Glyptocarpae Piper, IX: 13
Plagiobothrys acanthocarpus Piper, IX: 20, 32–35; XIII: 382
Plagiobothrys acanthocarpus f. *papillatus* (Piper) I. M. Johnst., IX: 20, 35
Plagiobothrys arizonicus (A. Gray) Greene, I: 65, 70–71
Plagiobothrys arizonicus var. *catalinensis* A. Gray, I: 70
Plagiobothrys armeriifolius (Phil.) I. M. Johnst., VI: 76, 82
Plagiobothrys asiaticus (Kom.) I. M. Johnst., III: 68; VII: 80
Plagiobothrys asper Greene, I: 72
Plagiobothrys austinae (Greene) I. M. Johnst., IX: 20, 28, 32, 36
Plagiobothrys aurantiacus Brand, VI: 100
Plagiobothrys australasicus (A. DC.) I. M. Johnst., I: 66, 75; III: 68; VII: 79
Plagiobothrys borneensis (Stapf) I. M. Johnst., III: 68; VII: 82; XIV: 63
Plagiobothrys bracteatus (Howell) I. M. Johnst., IX: 24, 46, 68, 71, 76–77, 79–81
Plagiobothrys bracteatus var. *aculeolatus* (Piper) I. M. Johnst., IX: 24, 70–71
Plagiobothrys calandrinioides (Phil.) I. M. Johnst., VI: 27, 77, 91–93; XI: 193–194
Plagiobothrys californicus (A. Gray) Greene, I: 60–61, 64–65, 70, 7378; VI: 81; IX: 12, 79; XIII: 382
Plagiobothrys californicus var. *fulvescens* I. M. Johnst., I: 73–74; VI: 81; XIII: 380
Plagiobothrys californicus var. *genuinus* I. M. Johnst., I: 73
Plagiobothrys californicus var. *gracilis* I. M. Johnst., I: 73; VI: 81
Plagiobothrys californicus var. *ursinus* (A. Gray) I. M. Johnst., I: 73–74
Plagiobothrys campestris Greene, I: 70
Plagiobothrys canescens Benth., I: 60, 65, 70–72; IX: 8; XIII: 381
Plagiobothrys canescens var. *apertus* Greene, I: 71
Plagiobothrys catalinensis (A. Gray) J. F. Macbr., I: 65, 70–71
Plagiobothrys chorisanus (Cham.) I. M. Johnst., I: 67, 77; IV: 104; IX: 21, 47–48, 50–51, 57, 81; XI: 192
Plagiobothrys chorisanus var. *hickmanii* (Greene) I. M. Johnst., IX: 21, 49–50
Plagiobothrys cognatus (Greene) I. M. Johnst., IX: 23, 57, 59, 61–66, 74; XI: 192
Plagiobothrys colorans Greene, I: 73
Plagiobothrys collinus (Phil.) I. M. Johnst., VI: 76, 81; XIII: 382
Plagiobothrys congestus (Wedd.) I. M. Johnst., I: 66, 75; VI: 77, 84–86, 97
Plagiobothrys cooperi A. Gray, I: 73, 78; IX: 54
Plagiobothrys corymbosus (Ruíz & Pav.) I. M. Johnst., VI: 78, 93–96
Plagiobothrys cusickii (Greene) I. M. Johnst., IX: 23, 56, 62–66
Plagiobothrys decumbens Macloskie, I: 76
Plagiobothrys diffusus (Greene) I. M. Johnst., IX: 24, 77–78, 81
Plagiobothrys distantiflorus (Piper) I. M. Johnst., IX: 20, 36, 38
Plagiobothrys divergens (Piper) I. M. Johnst., I: 67, 77; IX: 39
Plagiobothrys echinatus Greene, I: 72
Plagiobothrys elachanthus (F. Muell) I. M. Johnst., VII: 78, 80
Plagiobothrys foliaceus A. Nelson & J. F. Macbr., I: 69
Plagiobothrys foliosus I. M. Johnst., VI: 76, 83
Plagiobothrys fulvus (Hook. & Arn.) I. M. Johnst., I: 57, 60–62, 65, 70; VI: 76, 78; VII: 75; IX: 8, 13; XIII: 381–382
Plagiobothrys fulvus var. *campestris* (Greene) I. M. Johnst., I: 70; VI: 79; XIII: 381–382
Plagiobothrys germaini (Phil.) I. M. Johnst., VI: 76, 82–83
Plagiobothrys glaber (A. Gray) I. M. Johnst., I: 67, 77; VII: 77; IX: 21, 42, 46
Plagiobothrys glomeratus A. Gray, I: 58, 64, 69

Plagiobothrys glyptocarpus (Piper) I. M. Johnst., IX: 20, 32, 37, 67, 70
Plagiobothrys glyptocarpus var. *modestus* I. M. Johnst., IX: 20, 38
Plagiobothrys gracilis (Ruíz & Pav.) I. M. Johnst., VII: 81; IX: 35; XIII: 382
Plagiobothrys granulatus (Piper) I. M. Johnst., IX: 22, 53, 57–59
Plagiobothrys greenei (A. Gray) I. M. Johnst., I: 66, 76; VI: 90; VII: 81; IX: 8, 20, 31–32, 34, 35, 36, 38, 41, 51, 70
Plagiobothrys harknessii (Greene) A. Nelson & J. F. Macbr., I: 64, 68
Plagiobothrys hirtus (Greene) I. M. Johnst., XI: 193
Plagiobothrys hirtus var. *corallicarpus* (Piper) I. M. Johnst., XI: 193
Plagiobothrys hirtus var. *figuratus* (Piper) I. M. Johnst., XI: 193
Plagiobothrys hispidulus (Greene) I. M. Johnst., IX: 24, 37, 42, 47, 62, 66–67, 70–71, 74
Plagiobothrys hispidus A. Gray, I: 58, 64, 69
Plagiobothrys hispidus var. *foliaceus* (Greene) I. M. Johnst., I: 69
Plagiobothrys hispidus var. *genuinus*, I: 69
Plagiobothrys humifusa Jones, I: 72
Plagiobothrys humilis (Ruíz & Pav.), I: 66, 75; VI: 77, 84–86
Plagiobothrys humistratus (Greene) I. M. Johnst., I: 67, 77; IX: 20, 28, 41
Plagiobothrys hystriculus (Piper) I. M. Johnst., IX: 20, 32, 34
Plagiobothrys infectivus I. M. Johnst., XIII: 380–381
Plagiobothrys jonesii A. Gray, I: 64, 68–69
Plagiobothrys kingii (S. Watson) A. Gray, I: 64, 68; IV: 105
Plagiobothrys kunthii (Walp.) I. M. Johnst., I: 66, 74; VI: 77, 83–84
Plagiobothrys lamprocarpus (Piper), IX: 22, 56
Plagiobothrys lechleri I. M. Johnst., I: 68, 79; II: 41, 53; VI: 91
Plagiobothrys leptocladus (Greene), IX: 21, 29, 38, 41, 61
Plagiobothrys linifolius (Lehm.) I. M. Johnst., I: 66, 74; III: 68; VI: 77, 84, 87–88
Plagiobothrys lithocaryus (Greene) I. M. Johnst., I: 67, 76; III: 68; IV: 105; IX: 21, 50, 57, 66
Plagiobothrys macbridei I. M. Johnst., VI: 77, 88
Plagiobothrys medius (Piper) I. M. Johnst., IX: 23, 58–59; XI: 192–193
Plagiobothrys mesembryanthemoides (Speg.) I. M. Johnst., I: 68, 79; V: 42; VI: 97
Plagiobothrys mexicanus (J. F. Macbr.) I. M. Johnst., I: 66, 75
Plagiobothrys micranthus A. Nelson, XIII: 380
Plagiobothrys microcarpus Greene, I: 71, 75
Plagiobothrys minutus (Wernham) I. M. Johnst., III: 68; VII: 81; IX: 78; XIV: 62
Plagiobothrys mollis (A. Gray) I. M. Johnst., I: 66, 74; IV: 105; IX: 19, 25, 26
Plagiobothrys mollis var. *vestitus* (Greene) I. M. Johnst., I: 75; IX: 26
Plagiobothrys muricatus (Ruíz & Pav.) I. M. Johnst., I: 68, 79; VI: 98
Plagiobothrys myosotoides (Lehm.) Brand, XIII: 381–383
Plagiobothrys nelsonii (Greene) I. M. Johnst., I: 67, 77; IX: 61
Plagiobothrys nitens (Greene) I. M. Johnst., I: 68, 78; IX: 23, 64–65
Plagiobothrys nothofulvus A. Gray, I: 60, 65, 70
Plagiobothrys oppositifolius (Phil.), VI: 77, 92
Plagiobothrys orientalis (L.) I. M. Johnst., VII: 80; IX: 81
Plagiobothrys orthocarpus (Greene) I. M. Johnst., I: 68, 78; IX: 39
Plagiobothrys parishii I. M. Johnst., I: 67, 78; IV: 104; IX: 22, 54
Plagiobothrys parvulus Greene, I: 72
Plagiobothrys patagonicus I. M. Johnst., I: 66, 76; VI: 79
Plagiobothrys pedicellaris (Phil.) I. M. Johnst., I: 66, 75; VI: 78, 95–96
Plagiobothrys piperi I. M. Johnst., I: 66, 75; VI: 90; IX: 33
Plagiobothrys plebejus (Cham.) I. M. Johnst., I: 67, 77; IV: 106
Plagiobothrys plurisepalus (F. Muell.) I. M. Johnst., VII: 75, 77

Plagiobothrys polycaulis (Phil.) I. M. Johnst., VI: 77, 90, 98
Plagiobothrys pratensis (Phil.) I. M. Johnst., VI: 78, 97
Plagiobothrys pringlei Greene, I: 57, 61, 65, 73; IX: 12; XIII: 380
Plagiobothrys procumbens (Colla) I. M. Johnst., I: 68, 79–80; VI: 77, 87–88, 90–92; VII: 80–81
Plagiobothrys pulchellus (Phil.) I. M. Johnst., VI: 77, 93, 96
Plagiobothrys pygmaeus (Humb., Bonpl. & Kunth) I. M. Johnst., I: 66, 74; VI: 77, 84, 87
Plagiobothrys reticulatus (Piper) I. M. Johnst., IX: 24, 47, 50, 57, 59, 70–71, 77–81
Plagiobothrys reticulatus var. *rossianorum* I. M. Johnst., IX: 24, 71, 79–81
Plagiobothrys rufescens Fisch. & C. A. Mey., I: 70; VI: 78
Plagiobothrys rufescens var. *campestris* Jeps., I: 70
Plagiobothrys rufescens var. *laxiflorus* Reiche, I: 70; VI: 78
Plagiobothrys rufescens var. *renjifoanus* Reiche, I: 70; VI: 70
Plagiobothrys salsus (Brandegee) I. M. Johnst., I: 67, 78; IX: 22, 55, 64
Plagiobothrys scopulorum (Greene) I. M. Johnst., I: 68, 76, 78–80; IV: 104; IX: 41, 61, 64; XI: 192
Plagiobothrys scouleri (Hook. & Arn.) I. M. Johnst., I: 66, 75; IV: 106; IX: 21, 51–54, 58, 70; XI: 192–193
Plagiobothrys scouleri var. *corallicarpus* (Piper) I. M. Johnst., IX: 22, 52–54; XI: 193
Plagiobothrys scouleri var. *hirtus* (Greene) I. M. Johnst., IX: 22, 52–54; XI: 193
Plagiobothrys scriptus (Greene) I. M. Johnst., IX: 20, 27, 29, 40–41
Plagiobothrys shastensis Greene, I: 65, 72; XIII: 382
Plagiobothrys stipitatus (Greene) I. M. Johnst., I: 67, 77; IX: 21, 44, 46, 68, 70–71
Plagiobothrys stipitatus var. *micranthus* (Piper) I. M. Johnst., IX: 21, 45–46, 71
Plagiobothrys strictus (Greene) I. M. Johnst., I: 67, 78; IX: 20, 30, 67
Plagiobothrys tenellus (Nutt.) A. Gray, I: 65, 72–73; VI: 81; XIII: 382
Plagiobothrys tenellus var. *colorans* (Greene) I. M. Johnst., I: 73
Plagiobothrys tenellus var. *parvulus* (Greene) I. M. Johnst., I: 72
Plagiobothrys tener (Greene) I. M. Johnst., IX: 23, 66–68
Plagiobothrys tener var. *fallax* I. M. Johnst., IX: 23, 67–68
Plagiobothrys tener var. *subglaber* I. M. Johnst., IX: 23, 67–68
Plagiobothrys tenuifolius (Gray) I. M. Johnst., I: 68, 78; VI: 96
Plagiobothrys tinctorius (Ruíz & Pav.) A. Gray, I: 65, 71; VI: 76, 80–81; XIII: 381
Plagiobothrys torreyi A. Gray, I: 60, 65, 71–72; IV: 104; VI: 81; XIII: 382
Plagiobothrys torreyi var. *diffusus* I. M. Johnst., I: 71, 76; VI: 79; XIII: 382
Plagiobothrys torreyi var. *perplexans* I. M. Johnst., I: 72; XIII: 382
Plagiobothrys trachycarpus (A. Gray) I. M. Johnst., I: 67, 78; IV: 104, 106; IX: 24, 29, 74–78
Plagiobothrys uliginosus (Phil.) I. M. Johnst., VI: 78, 94, 96
Plagiobothrys undulatus (Piper) I. M. Johnst., IX: 21, 46, 47, 50, 57
Plagiobothrys ursinus A. Gray, I: 57, 74
Plagiobothrys verrucosis (Phil.) I. M. Johnst., VI: 76, 79–80, 92; XIII: 382
Plagiobothrys zollingeri (A. DC.) I. M. Johnst., III: 68; V: 48
Platynema Schrad., III: 67
Plethostephia Miers, VIII: 41
Pneumaria Hill, II: 46; III: 66–67
Podonosma Boiss., III: 46; XXVI: 4, 67, 69–71, 75; XXVII: 158–162, 164
Podonosma galalense Boiss., XXVI: 70
Podonosma syriacum (Labill.) Boiss., XXVI: 70
Pogogyne Benth., IX: 18
Pollichia Meaic., III: 70
Populus alba L., VIII: 13
Portulacaceae Juss., VI: 42; VI: 97
Preslaea Mart., VII: 46
Preslaea linifolia A. St.–Hil., VII: 63

Preslaea paradoxa Mart., VII: 46, 51
Preslaea parciflora Mart., VII: 51
Preslaea stenostachya A. St.–Hil., VII: 61
Preslia Opiz, VII: 46
Prolithospermum Elias, XXVI: 49–50
Prolithospermum johnstonii Elias, XXVI: 49
Psilolaemus I. M. Johnst., XXVI: 2, 20, 33–35, 61–63; XXVII: 158–159, 162, 165
Psilolaemum revolutus (B. L. Rob.) I. M. Johnst., XXVI: 34
Psilostemon DC., III: 53
Ptilocalyx Torr. & A Gray, II: 58
Pulmonaria L., III: 53, 56–57, 67; XXIII: 306; XXVII: 158
Pulmonaria canadensis L. Yong, II: 55
Pulmonaria elliptica Raf., II: 55
Pulmonaria suffruticosa L., XXV: 274
Purshia Spreng., II: 17; XXVI: 18
Purshia hispida Lehm., II: 17
Purshia mollis Lehm., II: 18
Purshia scabra Nutt., II: 17

Rhabdia Mart., XIX: 175; XX: 14
Rhabdia aquatica (Lour.) Kuntze, XX: 15
Rhabdia crebrifolia Miers, XX: 15
Rhabdia fluvialis Edgew., XX: 15
Rhabdia lycioides Mart., XX: 14–15
Rhabdia lycioides sensu C. B. Clarke, XX: 15
Rhabdia pohlii Kuhlm., XX: 15
Rhabdia sericea Edgew., XX: 15
Rhabdia viminea Wall. ex Dalzell, XX: 15
Rhinanthus L., XX: 14
Rhytispermum Link, III: 47; XXVI: 38
Rhytispermum apulum (L.) Reichenb., XXIV: 6
Rindera Pall., III: 70, 72; XXVII: 159
Rindera lateriflora Roem. & Schult., VI: 117
Rindera pilosa Roem. & Schult., II: 35; VI: 117
Rochefortia Sw., XVIII: 111, 127–128
Rochefortia acanthophora (DC.) Griseb., XVIII: 127–128
Rochefortia cuneata Sw., XVIII: 127–128
Rochelia Roem. & Schult., III: 60; VII: 76; XI: 168; XXVI: 38; XXVII: 160
Rochelia Reichb., III: 59, 65
Rochelia cardiosepala Bunge, XIV: 56
Rochelia disperma (L.) Wettst., XIV: 56
Rochelia gracilis Roem. & Schult., II: 36; VI: 116; VII: 81
Rochelia laxa I. M. Johnst., XIV: 55–56
Rochelia maccoya F. Muell. ex Benth., III: 65; VII: 76
Rochelia macrocalyx Boiss., XIV: 56
Rochelia patens Nutt., I: 46; XI: 194
Rochelia pleurisepalea (F. Muell.) I. M. Johnst., III: 65; VII: 76
Rochelia rectipes Stocks, XIV: 56
Rochelia styleris Boiss., XIV: 56
Rotula Lour., XX: 1, 14–15, 19
Rotula aquatica Lour., XX: 14–15
Rotula lycioides (Mart.) I. M. Johnst., XX: 15
Rubiaceae Juss., XI: 166

Saccellium Humb. & Bonpl., XI: 181–183
Saccellium brasiliense I. M. Johnst., XI: 181–182
Saccellium lanceolatum H. & B., XI: 181–182
Saccellium oliveri Britton ex Rusby, XI: 181–182
Salimori Adans., VIII: 41
Sarcanthus Andersson, VII: 46
Sarcanthus asperrimus Andersson, VII: 46
Sarcanthus asperrimus Lindl., VII: 46, 57
Schistocaryum Franch., III: 61–62; V: 49
Schistocaryum ciliare Bureau & Franch., III: 62
Schistocaryum myosotoidium Franch., III: 61–62
Schistocaryum ovalifolium Bureau & Franch., III: 62
Schleidenia Endl., VII: 46
Schleidenia bahiensis Fresen., VII: 63
Schleidenia barbata Fresen., VII: 54
Schleidenia clausseni Fresen., VII: 68
Schleidenia dasycarpa Fresen., VII: 52, 73; X: 62
Schleidenia elliptica Fresen., VII: 52
Schleidenia filiformis Fresen., VII: 61; X: 62
Schleidenia fumana Fresen., VII: 71; X: 61
Schleidenia gardneri Fresen., VII: 51
Schleidenia glomerata Fresen., VII: 68
Schleidenia hispida (Humb., Bonpl. & Kunth) Fresen, VII: 70; XVIII: 135
Schleidenia humistrata Fresen., VII: 50
Schleidenia incana Fresen., VII: 68–69
Schleidenia inundata Fresen., VII: 52

Schleidenia lagoensis Warm., VII: 49; X: 58; XVIII: 134
Schleidenia leptostachya Fresen., VII: 54
Schleidenia linifolia DC., VII: 63
Schleidenia longipetala Fresen., VII: 52
Schleidenia macrantha Fresen., VII: 68
Schleidenia macrodon Fresen., VII: 51
Schleidenia ocellata Fresen., VII: 63
Schleidenia ovalifolia Fresen., VII: 66
Schleidenia paradoxa DC., VII: 51
Schleidenia parciflora DC., VII: 51
Schleidenia polyphylla Fresen., VII: 63
Schleidenia pubescens Gürke, VII: 63
Schleidenia pullulans Fresen., VII: 50
Schleidenia salicoides Fresen., VII: 68
Schleidenia stenostachya DC., VII: 61
Schleidenia strictissima Fresen., VII: 68
Schleidenia subracemosa Warm., VII: 68; X: 62; XVIII: 136
Schobera Scop., VII: 10
Schobera angiosperma Murray, VII: 10; XVIII: 138
Schobera peruvianum Raf., VII: 10
Scorpioides Gilib., III: 62
Sebesten Adans., VIII: 40–41
Sebestena Dill., VIII: 41–42
Sebestena Gaertner, VIII: 40
Sebestena glomerata Lem., VIII: 43
Sebestena linearis (Hook. f.) Friesen, XI: 174
Sebestena revoluta (Hook. f.) Friesen, XI: 174
Selkirkia Hemsl., II: 6, 45; III: 58, 60; VI: 5, 25, 105–106; XXV: 286
Selkirkia berteri (Colla) Hemsl., II: 45; VI: 106
Sericostoma Stocks ex Wight, III: 45, 47; XXIV: 1; XXV: 268; XXVI: 37; XXVII: 158–161; XXIX: 255–256, 258, 260, 263–268
Sericostoma albidum Franch., III: 47; VIII: 92; XXIX: 285
Sericostoma arenaria (Vatke) I. M. Johnst., VIII: 92; XXIX: 280
Sericostoma calcarea (Vatke) I. M. Johnst., VIII: 92; XXIX: 284
Sericostoma kotschyi (Boiss.) Benth., III: 47; VIII: 92; XXIX: 283
Sericostoma parviflorum Stocks ex Walp., XXIX: 259
Sericostoma pauciflorum Stocks ex Wight, III: 47; XXIX: 258
Sericostoma persicum (Burm. f.) B. L. Burtt, XXIX: 288
Sericostoma strigosa Deflers, III: 47; VIII: 92; XXIX: 286
Sericostoma verrucosum Beck, III: 47; VIII: 92; XXIX: 291
Solanaceae Juss., XXVII: 163
Solenanthus Ledeb., III: 71
Sonnea Greene, I: 58, 61–64; II: 46; IV: 22; VI: 76
Sonnea foliacea Greene, I: 69
Sonnea glomerata Greene, I: 62, 69
Sonnea harknessii Greene, I: 68
Sonnea hispida Greene, I: 62, 69
Sonnea kingii Greene, I: 68
Sonnea jonesii Greene, I: 68
Spigelia humboldtiana C. & S., XIII: 377
Spiroconus Stev., III: 70
Staurina Nutt., II: 47
Steenhammerea Rchb., III: 66
Stegnocarpus Torr. & A. Gray, II: 58
Stenostomum dichotomum DC., VIII: 69
Stenosolenium Turcz., III: 48; XXIII: 299, 303, 314; XXVI: 3, 46–51, 54; XXVII: 158–162, 164–165
Stenosolenium perenne Schrenk ex Fisch. & C. A. Mey., XXIII: 334
Stenosolenium saxatile (Pall.) Turcz., XXVI: 46
Stomotechium Lehm., III: 55
Streblanthera Steud., III: 70
Strobila G. Don, III: 48; XXIII: 326; XXVI: 51
Strobila hispidissima Don, XXIII: 325
Stropiostoma Turcz., III: 62–63
Suchtelenia Kar., III: 69, 71
Symphitium fruticosum Sessé & Moç., XII: 16
Symphytum L., II: 4, 8; III: 53–54; XXIII: 306; XXVII: 159
Symphytum americanum L. Yong, II: 55
Symphytum asperrimum Donn. Sm., II: 8
Symphytum asperum Lepechin, II: 8
Symphytum fruticosum Sessé & Moç., II: 55; XII: 17XVII: 107–108
Symphytum hirsutum Raf., II: 55
Symphytum minus L. Yong, II: 55
Symphytum officinale L., II: 8, 55
Symphytum tuberosum L., II: 8
Synchitrium myosotidis Kuhn, IV: 14
Synzistachium Raf., VII: 10

Synzistachium peruvianum Raf., VII: 10

Tetraedrocarpus O. Schwartz, XXIX: 261
Tetraedrocarpus arabicus O. Schwartz, XXIX: 261, 289
Tetrandra (DC. & A. DC.) Miq., XI: 146; XX: 115
Tetrandra wallichii (DC.) Miq., XI: 150
Tetrandra zollingeri Miq., XI: 150
Thaumatocaryon Baill., I: 50; II: 4, 11–13, 31; III: 44; VI: 5–6, 14, 17; XXVII: 158
Thaumatocaryon dasyanthum (Cham.) I. M. Johnst., II: 12; VI: 14–15; XI: 194
Thaumatocaryon dasyanthum var. *sellowianum* (Cham.) I. M. Johnston, XI: 194
Thaumatocaryon hilarii Baill., I: 51; II: 11–12; VI: 15
Thaumatocaryon sellowianum (Cham.) I. M. Johnst., II: 12–13; VI: 14, 16; IX: 194
Thaumatocaryon tetraquetrum (Cham.) I. M. Johnst., II: 11–12; VI: 14
Thyrocarpus Hance, III: 70, 72–73
Tiaridium Lehm., VII: 18
Tiaridium sect. *Hieranthemum* Endl., VII: 18
Tiaridium elongatum Lehm., VII: 18
Tiaridium heliotropioides Cham., VII: 6
Tiaridium indicum Lehm., VII: 19
Tiaridium monostachyum G. Don, VII: 7
Tiquilia Pers., II: 57–58
Tiquilia brevifolia Nutt. ex Torr., V: 43
Tiquilia dichotoma Pers., II: 58
Tiquilia oregana Torr., V: 43
Tiquilia parvifolia Nutt., V: 43
Tiquiliopsis A. Heller, II: 57–58
Tiquiliopsis nuttallii A. Heller, V: 43
Topiaris Raf., VIII: 18
Topiaris geniculata Raf., VIII: 18
Toquera Raf., VIII: 47
Toquera tomentosa Raf., VIII: 52; X: 21
Tournefortia L., VII: 3, 6, 38, 44, 72–73; VIII: 3–4, 66–89; X: 1, 3, 45–56, 64; XI: 145–163; XIII: 375; XVIII: 111, 129–133; XIX: 175; XX: 2, 115, 118; XXVIII: 295
Tournefortia sect. *Arguzia* DC., VIII: 73; XI: 161
Tournefortia sect. *Cyphocema* I. M. Johnst., VIII: 66–67, 72–89; XI: 163
Tournefortia sect. *Eutournefortia*, VIII: 66, 72–73; XI: 145–146, 150, 168; XIX: 175
Tournefortia sect. *Mallota* A. DC., XI: 161
Tournefortia sect. *Mallotonia* Griseb., VIII: 66; XI: 161
Tournefortia sect. *Messerschmidia* DC., VIII: 73; XI: 161
Tournefortia sect. *Pittonia* G. Don, VIII: 66; XI: 146
Tournefortia sect. *Tetrandra* DC. & A. DC., XI: 146
Tournefortia–Messerschmidtiae Humb., Bonpl. & Kunth, VIII: 72
Tournefortia–Pittoniae Humb., Bonpl. & Kunth, VIII: 66; XI: 145
Tournefortia acclinis F. v. Muell., XI: 147, 149
Tournefortia acuminata DC., XI: 147, 159
Tournefortia alba Splitg. ex de Vries, X: 52, 54
Tournefortia angulosa Desf., XI: 166
Tournefortia angustifolia (Lam.) Roem. & Schult., XI: 166
Tournefortia arborea Blanco, XI: 164; XX: 121
Tournefortia arborescens Lam., XI: 147, 159–160, 165
Tournefortia argentea L., XI: 160–162, 164–165; XX: 121
Tournefortia arguzia (L.) Roem. & Schult., VIII: 73; XI: 164; XX: 119
Tournefortia arguzia var. *angustior* DC., XI: 164; XX: 119
Tournefortia arguzia var. *cynanchoides* Turcz. ex Steven, XI: 164; XX: 119
Tournefortia arguzia var. *latifolia* DC., XI: 164; XX: 119
Tournefortia arguzia var. *rosmarinifolia* (Willd.) Turcz., XI: 164; XX: 119
Tournefortia aubletii J. F. Macbr., X: 52–53
Tournefortia aurata Phil., VII: 60
Tournefortia barbadensis N. E. Br. ex Britton, XVIII: 132
Tournefortia bicolor Sw., VIII: 67, 69–70; X: 47, 50–51, 53–54; XVII: 108; XVIII: 129, 131, 133
Tournefortia bicolor var. *calycosa* Donn. Sm., VIII: 70; X: 52–54
Tournefortia bicolor var. *laevigata* M. Gómez, VIII: 69

Tournefortia bicolor subvar. *latifolia* M. Gómez, VIII: 69
Tournefortia bifida Lam., XI: 166
Tournefortia bifida sensu Bojer, XI: 160
Tournefortia billbergiana Beurl., VIII: 70
Tournefortia blanchetii A. DC., VIII: 89
Tournefortia bojeri A. DC., XI: 147, 160–161, 166
Tournefortia bojeri sensu Cordem., XI: 159
Tournefortia boniana Gagnep., XI: 154–155; XX: 116
Tournefortia brachiata A. DC., VIII: 78, 80
Tournefortia brachiata f. *grandifolia* Chodat & Hassl., VIII: 78
Tournefortia brachyantha Merr. & Chun, XX: 116
Tournefortia brasiliensis Poir., VIII: 89; XI: 185
Tournefortia breviflora DC., VIII: 75–76, 86
Tournefortia candidula (Miers) I. M. Johnst., VIII: 76, 84
Tournefortia candollii C. B. Clarke, XI: 153–154, 156
Tournefortia caribaea (DC.) Griseb., XVIII: 131
Tournefortia catharinensis Vaupel, VIII: 77
Tournefortia chamissoniana Vaupel, VIII: 84–85
Tournefortia chinensis Killip, VIII: 70
Tournefortia coriacea Vaupel, X: 52
Tournefortia cuspidata Humb., Bonpl. & Kunth, X: 47, 54, 56; XVIII: 129, 133
Tournefortia cymosa Heyne, XI: 161, 166
Tournefortia cymosa L., X: 56
Tournefortia cymosa Sw., XI: 166
Tournefortia cymosa sensu Sessé & Moç., XVII: 108
Tournefortia edgeworthii A. DC., XI: 167
Tournefortia elegans Cham., VIII: 78, 80
Tournefortia elegans of Griseb., VIII: 82
Tournefortia filiflora Griseb., XVIII: 129, 132
Tournefortia floribunda Humb., Bonpl. & Kunth, VIII: 87–88; X: 48
Tournefortia floribunda of Fresen., VIII: 88
Tournefortia floribunda sensu Schomburgk, X: 47
Tournefortia foetidissima L., VIII: 67; X: 56; XVIII: 132
Tournefortia foetidissima sensu de Vries, X: 48
Tournefortia frangulaefolia Zippel ex Span., XI: 147–149
Tournefortia fruticosa (L. f.) Ker, XI: 167
Tournefortia gardneri A. DC., VIII: 76, 82–83, 89
Tournefortia gaudichaudii Gagnep., XI: 154, 156; XX: 116
Tournefortia glabra Aubl., X: 52–53
Tournefortia glabra (Hassk.) Miq., XI: 150
Tournefortia glabra (Hassk.) Zoll., XI: 150
Tournefortia glabra L., VIII: 67
Tournefortia glaberrima Salzm. ex DC., VIII: 69
Tournefortia glabrifolia Domin, XI: 147, 150
Tournefortia gnaphalodes R. Br., VIII: 66; X: 56; XI: 161–162, 165; XVIII: 129–130; XX: 118
Tournefortia graciliflora Rusby, VIII: 78, 80
Tournefortia gracillima Vaupel, VIII: 77
Tournefortia grandifolia Fresen., VIII: 78, 80
Tournefortia grandifolia of Lillo, VIII: 82
Tournefortia guadelupensis Urb., XVIII: 130
Tournefortia hartwegiana Steud., XI: 167
Tournefortia heliotropioides Hook., VII: 24
Tournefortia herzogii Vaupel, VIII: 85
Tournefortia heyneana sensu DC., XI: 154, 156
Tournefortia heyneana Wall., XI: 147, 152–153, 155–156, 166
Tournefortia hirsuta Rein. ex Boerl., XI: 147, 149
Tournefortia hirsutissima L., VIII: 66–69; X: 47, 50, 53–54, 56; XI: 145–146; XVII: 108; XVIII: 129, 133; XX: 115
Tournefortia hirsutissima sensu Pulle, X: 54
Tournefortia hookeri C. B. Clarke, XI: 147, 151
Tournefortia hookeri var. *subtropica* C. B. Clarke, XI: 151–152
Tournefortia horsfieldii Miq., XI: 147, 149, 157
Tournefortia hostmanii Klotzsch ex M. R. Schomb., X: 48–49
Tournefortia humilis L., VII: 67, 69; XVIII: 135, 137
Tournefortia incana (G. Mey.) G. Don, X: 56, 64
Tournefortia intermedia Fresen., VIII: 78, 80
Tournefortia jamaicensis Urb., XVIII: 131

Tournefortia khasiana C. B. Clarke, XI: 152, 154, 156
Tournefortia laevigata Lam., VIII: 69; X: 51; XVIII: 133
Tournefortia laevigata in pt. of Kuntze, VIII: 71
Tournefortia laevigata var. *latifolia* DC., VIII: 69; X: 51
Tournefortia laevis Sessé & Moç., XVII: 108
Tournefortia lanceolata Fresen., VIII: 77
Tournefortia lanceolata Sessé & Moç., XVII: 108
Tournefortia lanuginosa Vaupel, VIII: 34
Tournefortia latifolia Willd., VIII: 69
Tournefortia laurifolia sensu DC., X: 48
Tournefortia laurifolia Vent., XVIII: 131
Tournefortia laxiflora DC., VIII: 88
Tournefortia lilloi I. M. Johnst., VIII: 68, 71–72
Tournefortia linearis E. Mey., XI: 167
Tournefortia luzonica I. M. Johnst., XI: 147, 156–157
Tournefortia luxonica var. *sublucens* I. M. Johnst., XI: 157
Tournefortia macroloba DC., VIII: 77
Tournefortia macrophylla K. Schum. & Lauterb., XI: 147, 149
Tournefortia maculata Jacq., XVIII: 129–131
Tournefortia maculata sensu Lam., X: 48
Tournefortia malanochaeta DC., X: 47, 55
Tournefortia mapirensis Lingelsh., VIII: 75–76
Tournefortia maritima Salzm. ex DC., VIII: 83–84
Tournefortia martii Fresen., VIII: 85
Tournefortia megapotamica Spreng., VIII: 89
Tournefortia membranacea (Gardner) DC., VIII: 72, 76, 87–89
Tournefortia messerschmidia Sweet, XI: 167
Tournefortia meyeri DC., X: 56, 64
Tournefortia micranthos (Bunge) A. DC., XI: 167
Tournefortia microcalyx (Ruíz & Pav.) I. M. Johnst., XXVIII: 295
Tournefortia miquelii J. F. Macbr., X: 51
Tournefortia mocquerysi Aug. DC., XI: 158
Tournefortia mollis Bertol., XI: 157, 167
Tournefortia mollis F. Muell., XI: 157
Tournefortia mollis A. Gray, XIII: 375
Tournefortia monostachya Willd., VII: 70; XVIII: 136
Tournefortia monclovana S. Watson, XIII: 375
Tournefortia montana Lour., XI: 147, 152–156; XX: 115–117
Tournefortia montana var. *griffithii* I. M. Johnst., XX: 117
Tournefortia muelleri I. M. Johnst., XI: 147, 157
Tournefortia mutabilis Vent., XI: 167
Tournefortia nitida Humb., Bonpl. & Kunth, VIII: 69
Tournefortia obscura A. DC., VIII: 67–68; X: 54–55; XVIII: 133
Tournefortia obtusiflora Benth., XXVIII: 295
Tournefortia odorata Sessé & Moç., XVII: 108
Tournefortia orientalis R. Br., XI: 147–148, 150
Tournefortia ovalifolia Rusby, VIII: 70
Tournefortia ovata Wall., XI: 147, 153
Tournefortia paniculata Cham., VIII: 75, 78–82, 89; X: 47, 50
Tournefortia paniculata var. *austrina* I. M. Johnst., VIII: 78, 82
Tournefortia paniculata var. *spigeliaeflora* (A. DC.) I. M. Johnst., X: 49
Tournefortia peruviana Poir., VIII: 75, 78–81; X: 48–49, 51; XVII: 108; XVIII: 130
Tournefortia pohlii Fresen., VIII: 84–85
Tournefortia polystachya of R. E. Fr., VIII: 71
Tournefortia psilostachya Humb., Bonpl. & Kunth, VIII: 86–87
Tournefortia psilostachya var. *caribaea* DC., XVIII: 131
Tournefortia psilostachya var. *rubicunda* Chodat, VIII: 85
Tournefortia puberula Baker, XI: 147, 158–159
Tournefortia puberula var. *kirkii* I. M. Johnst., XI: 158–159
Tournefortia punctata Spreng., XVIII: 131
Tournefortia pyrrhotrichia Fresen., VIII: 83–84
Tournefortia restingicola Vaupel, VIII: 83
Tournefortia reticosa Wight, XI: 152–153
Tournefortia romeroi I. M. Johnst., XXVIII: 294
Tournefortia rosmarinifolia Willd. ex Steud., XI: 164

Tournefortia roxburghii C. B. Clarke, XI: 153–155
Tournefortia royleana DC., XI: 167
Tournefortia rubicunda Salzm. ex DC., VIII: 76, 85–86, 89
Tournefortia rufipila Benth., VII: 44
Tournefortia sagreana DC., XVIII: 130
Tournefortia salicifolia (Gardner) DC., VIII: 76, 88
Tournefortia salzmanni DC., VIII: 76, 87–88; X: 55
Tournefortia salzmannii of Kuntze, VIII: 82
Tournefortia salzmannii var. *blachetina* Chodat & Hassl., VIII: 87
Tournefortia salzmannii var. *paraguariensis* Chodat, VIII: 87
Tournefortia sampsoni Hance, XI: 153, 156; XX: 116
Tournefortia sarmentosa Lam., XI: 146–150, 157; XX: 115, 117
Tournefortia sarmentosa var. *hirsuta* Blume ex Miq., XI: 147
Tournefortia sarmentosa var. *magnifolia* Domin, XI: 147, 149
Tournefortia scandens Mill., VIII: 78
Tournefortia scandens Willd., VIII: 78
Tournefortia schomburgkii DC., VIII: 70; X: 52, 54
Tournefortia sericea of DC., VIII: 84
Tournefortia sericea of Fresen., VIII: 84
Tournefortia sericea Vahl, VIII: 84; XVIII: 131
Tournefortia sessilifolia Poir., VII: 21
Tournefortia setifera Urb. & Ekman, X: 54; XVIII: 133
Tournefortia siberica L., VIII: 67, 73; XI: 161–164; XX: 118–119
Tournefortia siberica var. *angustior* Turcz. ex Fedtch., XI: 164
Tournefortia siberrica var. *grandiflora* H. Winkl., XX: 119
Tournefortia sp. Vaupel, VIII: 71
Tournefortia speciosa Vaupel, VIII: 84–85
Tournefortia spigeliaeflora A. DC., VIII: 78, 81; X: 49–50
Tournefortia stenoraca Klotzsch, XI: 167
Tournefortia stenosepala Krause, VII: 45
Tournefortia subrotunda Rusby, VIII: 76
Tournefortia subsessilis Cham., VIII: 76, 83–84; XVIII: 129, 131
Tournefortia subulata Hochst. ex A. DC., VIII: 83; XI: 167
Tournefortia suffruticosa L., XVII: 108
Tournefortia surinamensis A. DC., X: 48–49
Tournefortia synsystachya Roem. & Schult., VII: 10
Tournefortia syringaefolia of most authors, X: 51
Tournefortia syringaefolia Vahl, X: 47–51, 54; XVII: 108; XVIII: 130
Tournefortia tetragona Blume ex Steud., XI: 150
Tournefortia tetrandra Blume, XI: 146, 150–151; XX: 115
Tournefortia tetrandra var. *angustifolia* Moritzi, XI: 151
Tournefortia tetrandra var. *glabra* Hassk., XI: 150
Tournefortia tetrandra var. *hirsuta* Blume ex Miq., XI: 147–149
Tournefortia tetrandra var. *longiflora* Hassk., XI: 150
Tournefortia tetrandra var. *walkerae* (C. B. Clarke) I. M. Johnst., XI: 151
Tournefortia trinitensis Riley, XVIII: 131
Tournefortia tuberculosa Cham., XI: 167
Tournefortia ulei Vaupel, VIII: 68, 70; X: 47–48, 51, 54
Tournefortia undulata of Griseb., VIII: 71
Tournefortia urvilleana Cham., XI: 147–148, 161
Tournefortia vauthieri DC., VIII: 76
Tournefortia velutina Humb., Bonpl. & Kunth, XI: 159
Tournefortia velutina Sm., XI: 159, 160, 165
Tournefortia villosa Salzm. ex DC., VIII: 76, 83–85
Tournefortia villosa f. *rubriflora* Wawra, VIII: 84
Tournefortia viridiflora (Roxb.) Wall., XI: 153, 155
Tournefortia viridiflora var. *griffithii* C. B. Clarke, XI: 154–155; XX: 117
Tournefortia volubilis L., VIII: 66–67, 72; X: 47–48; XVIII: 129, 131

Tournefortia volubilis of Ruíz & Pav., VIII: 78
Tournefortia volubilis var. *hirsuta* Fresen., VIII: 88
Tournefortia vulgaris Salzm. ex DC., VIII: 87
Tournefortia walkerae C. B. Clarke, XI: 151
Tournefortia wallichii (DC.) Miq., XI: 150
Tournefortia wightii C. B. Clarke, XI: 153, 155
Tournefortia xapuryensis Vaupel, VIII: 77
Tournefortia zeylanica (Burman) Wight, XI: 168
Toxostigma A. Rich., III: 48; XXVI: 51
Toxostigma luteum A. Rich., XXIII: 325; XXVI: 51
Toxostigma purpurascene A. Rich., XXIII: 325; XXVI: 51
Trachelanthus Kunze, III: 71
Trachystemon G. Don, III: 52–53
Traxilum Raf., XX: 19
Traxara Raf., III: 51; XXV: 293
Tretocarya Maxim., III: 61
Tretocarya pratensis Maxim., III: 62
Tretocarya sikkimensis Oliv., III: 62
Trichodesma R. Br., III: 46, 69–70; IV: 14–16; XXII: 76–77; XXVII: 159–160
Trichodesma sect. *Friedrichsthalia* A. DC., XXII: 77
Trichodesma calcareum Craib, XXII: 75
Trichodesma calycosum Collett & Hemsl., XXII: 75–78
Trichodesma calycosum var. *formosanum* (Matsum.) I. M. Johnst., XXII: 78
Trichodesma formosa Matsum., XXII: 78
Trichodesma hemsleyana H. Lév., XXII: 75
Trichodesma khasianum C. B. Clarke, XXII: 77
Trichodesma khasianum sensu auct. Formos., XXII: 78
Trichodesma khasianum var. *calcareum* (Craib) Brand, XXII: 75
Trichodesma sinicum Brand, XXII: 75
Trigonocaryum Trautv., III: 53–54, 63
Trigonocaryum involucratum (Stev.) I. M. Johnst., III: 54
Trigonocaryum prostratum Trautv., III: 54
Trigonotis Stev., II: 6, 46; III: 43, 57–59; IV: 5; V: 47–48; VII: 81–82; XII: 1–10; XIV: 56–63; XXVII: 158; XXVIII: 305
Trigonotis abata I. M. Johnst., XIV: 58, 60–61; XXII: 69
Trigonotis archboldii I. M. Johnst., XIV: 57–58
Trigonotis bodinieri (H. Lév.) H. Lév., XII: 10
Trigonotis borneensis (Stapf) I. M. Johnst., XIV: 61, 63
Trigonotis brevipes Maxim., XII: 3, 6; XXII: 70
Trigonotis cavaleriei (H. Lév.) Hand.-Mazz., XII: 3, 6; XXII: 71
Trigonotis ciliolata I. M. Johnst., XXII: 68–69
Trigonotis compressa I. M. Johnst., XII: 2, 4–5
Trigonotis contortipes I. M. Johnst., V: 46; XII: 10
Trigonotis cupulifera I. M. Johnst., XXII: 69–70
Trigonotis delicatula Hand.-Mazz., XII: 2–3, 10; XIV: 59–60
Trigonotis faberi Hand.-Mazz., XII: 6
Trigonotis floribunda I. M. Johnst., XXII: 70, 72
Trigonotis gracilipes I. M. Johnst., XII: 3, 9
Trigonotis haackei F. Muell., XIV: 58
Trigonotis heliotropifolia Hand.-Mazz., XII: 2–3, 9; XIV: 60
Trigonotis icumae (Maxim.) Makino, XII: 25
Trigonotis inoblita F. Muell, XIV: 58
Trigonotis laxa I. M. Johnst., XXII: 71–72
Trigonotis macrophylla Vaniot, XII: 2, 4
Trigonotis macrophylla var. *trichocarpa* Hand.-Mazz., XII: 4
Trigonotis macrophylla var. *verrucosa* I. M. Johnst., XII: 4
Trigonotis mairei (H. Lév.) I. M. Johnst., XII: 2, 4–5
Trigonotis microcarpa (Wall.) Benth ex C. B. Clarke, XII: 3, 7, 9
Trigonotis minutus (Wernham) I. M. Johnst., VII: 81; XIV: 61–62
Trigonotis mollis Hemsl., XII: 3, 7
Trigonotis moupinensis (Franch.) I. M. Johnst., XII: 2, 5–6
Trigonotis muriculata I. M. Johnst., XII: 4
Trigonotis myosotoidea Maxim., XII: 25
Trigonotis omeiensis Matsuda, XII: 3, 6; XXII: 71
Trigonotis opaca (I. M. Johnst.) I. M. Johnst., XIV: 61–62
Trigonotis ovalifolia (Wall.) Benth., XII: 6, 9

Trigonotis papuana (Hemsl.) I. M. Johnst., XIV: 61–63
Trigonotis peduncularis (Trev.) Benth. ex Baker & Moore, II: 46; V: 48; XII: 1–3, 8
Trigonotis peduncularis var. *microcarpa* (Wall.) Brand, XII: 8
Trigonotis peduncularis var. *vestita* Hemsley, V: 47; XII: 8
Trigonotis pedunculata var. *macrophylla* (Vaniot) H. Lév., XII: 4
Trigonotis pleiomera I. M. Johnst., XIV: 60–61
Trigonotis procumbens (Warb.) I. M. Johnst., XIV: 61–62
Trigonotis radicans (Turcz.) Stev., V: 47; XII: 25; XIV: 59
Trigonotis robusta (I. M. Johnst.) I. M. Johnst., XIV: 61–62
Trigonotis rockii I. M. Johnst., V: 47; XII: 2–3, 10; XIV: 60
Trigonotis rotundata I. M. Johnst., XII: 3, 7, 10
Trigonotis sericea (Maxim.) I. M. Johnst., XII: 25
Trigonotis tenera I. M. Johnst., XIV: 56
Trigonotis tibetica (C. B. Clarke) I. M. Johnst., V: 48
Trigonotis tibetica var. *minor* (C. B. Clarke) I. M. Johnst., V: 48
Trigonotis vestita (Hemsl.) I. M. Johnst., V: 47–48; XII: 3, 8
Triosteum himalayanum Wall., XII: 21
Tysonia Bolus, III: 70, 72

Ulmarronia Friesen, XVII: 86
Ulmarronia corymbosa (L.) Friesen, XVII: 91
Ulmi angustifoliae facie baccifera Jamaicensis, etc. Plunkett, X: 34

Valentina Speg., VII: 5
Valentina patagonica Speg., VII: 5, 8
Valentiniella Speg., VII: 5
Valentiniella patagonica Speg., VII: 5, 8
Vangueria Comm. ex Juss., XI: 167
Vangueria tomentosa Hochst., XI: 167
Varronia DC., VIII: 18
Varronia P. Browne, VIII: 18; XVII: 85–86
Varronia alba Jacq., XV: 347–348
Varronia alba sensu Auct. recent, XV: 347
Varronia angustifolia West, X: 39
Varronia asperrima (DC.) Friesen, XVII: 96
Varronia bridgesii Friesen, XXII: 64
Varronia bullata L., XVII: 85, 96–100
Varronia calyptrata (Bertol.) DC., XV: 347–348
Varronia canescens Andersson, XI: 175
Varronia clarendonensis Britton, XVII: 96
Varronia corymbosa Desv., X: 34–35; XVII: 91, 93; XVIII: 93, 119
Varronia corymbosa L. ex Desf., X: 34; XVIII: 93
Varronia crenata Roem. & Schult., XXVIII: 290
Varronia crenulata Sessé & Moç., XVII: 104, 106
Varronia curassavica Jacq., X: 37, 39; XVII: 98–102; XVIII: 120–121
Varronia curassavica sensu Sw., XIX: 177
Varronia cylindrostachya sensu Graham, X: 37
Varronia dasycephala Desv., XVIII: 116
Varronia dichotoma Ruíz & Pav., VIII: 33; X: 34; XVII: 90
Varronia ferruginea Lam., XVII: 103
Varronia globosa Humb., Bonpl. & Kunth, VIII: 37; X: 43; XVII: 99, 102; XVIII: 116–117
Varronia grandiflora Desv., VIII: 21; X: 32–33; XVIII: 116
Varronia grandiflora var. *glabrata* Friesen, X: 33
Varronia grandiflora var. *sprucei* Friesen, X: 33
Varronia guazumifolia Desv., VIII: 30; XI: 179
Varronia guianensis Desv., X: 36, 38; XVIII: 120
Varronia guianensis sensu Graham, X: 40
Varronia humilis Jacq., X: 36; XVII: 98–99
Varronia humilis var. *mexicana* Friesen, XVII: 98
Varronia jacmeliana (Krause) Friesen, XVII: 98
Varronia lantanoides Willd. ex Cham., VIII: 21; X: 32
Varronia leucophlyctis Hook. f. ex Andersson, XI: 176
Varronia limicola (Brandegee) Friesen, XVII: 88

Varronia linearis Hook. f. ex Andersson, XI: 174
Varronia lineata L., X: 36; XVII: 85, 91, 93–94
Varronia longifolia Sessé & Moç., XVII: 88, 106
Varronia macrocephala Desv., VIII: 63–64
Varronia macrocephala of Nees & Mart., VIII: 64; XI: 177
Varronia macrostachya Jacq., X: 36, 38; XVII: 99–102; XVIII: 120–121
Varronia martinicensis Jacq., XVII: 99; XVIII: 117, 120
Varronia martinicensis Poir., X: 39
Varronia martinicensis sensu Aubl., X: 36, 42
Varronia mexicana Friesen, XVII: 98
Varronia mirabiloides Jacq., XVII: 98
Varronia monosperma Jacq., X: 33–34; XVIII: 93, 119
Varronia oaxacana (DC.) Friesen, XVII: 87
Varronia oaxacana var. *appendiculata* (Greenm.) Friesen, XVII: 87
Varronia paniculata Wikstr., XVIII: 118
Varronia polycephala Lam., X: 33, 36; XVIII: 118–119
Varronia pringlei (B. L. Rob.) Friesen, XVII: 89
Varronia revoluta Hook. f. ex Andersson, XI: 174
Varronia scaberrima Andersson, XI: 176
Varronia scouleri Hook. f. ex Andersson, XI: 175
Varonia sinensis Lour., XX: 8
Varronia sphaerocephala Willd. ex Humb., Bonpl. & Kunth, XVIII: 116
Varronia spicata Salzm. ex DC., VIII: 29; X: 43
Varronia spinescens , XVII: 106
Varronia tomentosa Lam., X: 41–42
Varronia tuberosa Sessé & Moç., XVII: 105
Varronia ulmifolia Juss. ex Dum. Cours., X: 34–35
Varronia urticacea (Standl.) Friesen, XVII: 87
Vaupelia Brand, III: 44, 46; XXVI: 4, 71–73, 75; XXVII: 158, 164
Vaupelia barbata (Vaupel) Brand, XXVI: 71–73
Vaupelia hispida (Baker & Wright) Brand, XXVI: 72–73
Verbenaceae J. St.-Hil., V: 45; VIII: 52; XXVI: 18
Vernonia scorpioides (Lam.) Pers., XI: 185
Verrucaria Medik., VIII: 72
Verrucaria Wegg, VIII: 72

Wheelerella G. B. Grant, I: 55; II: 45; IV: 6, 26; VI: 31
Wheelerella circumscissa G. B. Grant, I: 55; IV: 41
Wheelerella dichotoma G. B. Grant, I: 55; IV: 42
Winkleria Rchb., III: 67

Zoelleria Warb., VII: 82; XIV: 59–62; XXII: 69
Zoelleria procumbens Warb., VII: 82; XIV: 59–60, 62
Zoelleriae Gürke, XIV: 60
Zombiana Baill., XX: 15
Zombiana africana Baill., XX: 15
Zwackhia Sendtn., III: 45, 49; XXV: 275
Zwackhia aurea Sendtn., XXV: 275–276
Zwackhia sendteri (Boiss.) Maly, III: 49

Notes on the system:

- all taxa are cited by the page on which the name occurs in print.
- all names that appear in print are indexed regardless of status.
- specific epithets are all spelled in lower case letters regardless of how Johnston spelled them
- names with cited specimens are not included
- Studies in the Boraginaceae II ends with Taxonomic Records Concerning American Spermatophytes. These are not indexed as the majority are not Boraginaceae.
- names cited in the index to Studies in the Boraginaceae IX are cited only where they appear in the text, not in the index included with the article. The index is not considered here.

APPENDIX 1. PUBLICATIONS OF IVAN M. JOHNSTON

1. Johnston, I. M. 1918. Some undescribed plants from southern California. Bull. S. Calif. Acad. Sci. 17: 63–64.
2. _____. 1918. A few notes on the botany of southern California. Bull. S. Calif. Acad. Sci. 17: 64–66.
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5. _____. 1922. Undescribed plants mostly from Baja California. Univ. Calif. Publ. Bot. 7: 437–446.
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10. Munz, P. A. & _____. 1924. Miscellaneous notes on plants of southern California—III. Bull. Torrey Bot. Club 51: 295–302.
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18. _____. 1925. Studies in the Boraginaceae IV. The North American species of *Cryptantha*. Contr. Gray Herb. 74: 1–114.
19. _____. 1925. The Oenotheras of northwestern South America. Contr. Gray Herb. 75: 15–23.
20. _____. 1925. Further new plants collected by Mrs. Richard C. Curtis in tropical Africa. Contr. Gray Herb. 75: 23–26.
21. _____. 1925. Some undescribed American Spermatophytes. Contr. Gray Herb. 75: 27–39.
22. _____. 1925. Studies in the Boraginaceae V. 1. Concerning the range and identity of certain American species. 2. New or otherwise interesting Asiatic borages. Contr. Gray Herb. 75: 40–49.
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48. _____. 1937. Studies in the Boraginaceae XII. 1. *Trigonotis* in southwestern China. 2. Novelties and critical notes. J. Arnold Arbor. 18: 1–25.
49. _____. 1938. Notes on some *Astragalus* species of Ecuador and Peru. J. Arnold Arbor. 19: 88–96.
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54. _____. 1939. New fuchsias from southern Peru. J. Arnold Arbor. 20: 241–244.
55. _____. 1939. The Preparation of Botanical Specimens for the Herbarium. Jamaica Plain, Massachusetts.
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59. _____. 1940. New phanerogams from Mexico, III. J. Arnold Arbor 21: 253–265.
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68. _____. 1943. New phanerogams from Mexico, V. J. Arnold Arbor. 24: 90–98.
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74. _____. 1944. Plants of Coahuila, eastern Chihuahua, and adjoining Zacatecas and Durango, V. J. Arnold Arbor. 25: 133–182. (Published out of sequence before part IV.)
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76. _____. 1944. Publication date of Gaudichaud's botany of the voyage of the Bonite. J. Arnold Arbor. 25: 481–487.
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80. _____. 1947. *Astragalus* in Argentina, Bolivia and Chile. J. Arnold Arbor. 28: 336–409.
81. _____. 1948. Noteworthy species from Mexico and adjacent United States II. J. Arnold Arbor. 29: 193–197.

82. _____. 1948. Studies in the Boraginaceae XVI. Species chiefly from Mexico and the western United States. J. Arnold Arbor. 29: 227–241.
83. _____. 1948. Boraginaceae. *In*: B. A. Maguire et al., Plant explorations in Guiana in 1944, chiefly to the Tafelberg and the Kaieteur Plateau V. Bull. Torrey Bot. Club 75: 562.
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85. _____. 1949. Studies in the Boraginaceae XVIII. Boraginaceae of the southern West Indies. J. Arnold Arbor. 30: 111–138.
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88. _____. 1950. Noteworthy species from Mexico and adjacent United States III. J. Arnold Arbor. 31: 188–195.
89. _____. 1951. Studies in the Boraginaceae XX. Representatives of three subfamilies in eastern Asia. J. Arnold Arbor. 32: 62–78.
90. _____. 1951. Studies in the Boraginaceae XXI. Sino-Indian species of *Onosma*. J. Arnold Arbor. 32: 201–225, 344–368.
91. _____. 1951. Boraginaceae. *In*: T. H. Kearney & R. H. Peebles, Arizona Flora. Univ. of California Press, Berkeley and Los Angeles.
92. _____. 1952. Studies in the Boraginaceae XXII. Noteworthy species, chiefly Asian and South American. J. Arnold Arbor. 33:62–78.
93. _____. 1952. Studies in the Boraginaceae XXIII. A survey of the genus *Lithospermum*. J. Arnold Arbor. 33: 299–363.
94. _____. 1953. Studies in the Boraginaceae XXIV. 1. Three genera segregated from *Lithospermum*. 2. Supplementary notes on *Lithospermum*. J. Arnold Arbor. 34: 1–16.
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99. _____. 1954. Studies in the Boraginaceae XXVII. Some general observations on the Lithospermae. J. Arnold Arbor. 35: 158–166.
100. _____. 1956. Studies in the Boraginaceae XXVIII. New or otherwise interesting species from America and Asia. J. Arnold Arbor. 37: 288–306.
101. McCullough, C. R., _____ & J. M. Parker. 1956. Terrain study of the Panama Canal Zone with special reference to the Fort Sherman area and vicinity. North Carolina State College, Dept. Engineering Research.
102. _____. 1957. Studies in the Boraginaceae XXIX. *Echiochilon* and related genera. J. Arnold Arbor. 38: 255–293.
103. _____. 1957. Boraginaceae. *In*: J. A. Steyermark, Contributions to the flora of Venezuela. Fieldiana, Bot. 28: 1080–1082.
104. _____. 1959. Studies in the Boraginaceae XXX. Some noteworthy American Borages. Wrightia 2: 13–22.
105. _____. 1959. Studies in the Boraginaceae XXXI. Notes on some Texas borages. Wrightia 2: 158–162.

106. _____. 1962. Boraginaceae. *In*: F. W. Gould. Texas Plants—A Checklist and Ecological Summary. The Agricultural and Mechanical College of Texas, College Station.
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APPENDIX 2. TYPES OF IVAN M. JOHNSTON BY BINOMIAL

Abies (Pinaceae)
A. coahuilensis I. M. Johnst.—*Johnston 9010* (Mexico), holotype: A

Acacia (Fabaceae)
A. brandegeana I. M. Johnst.—*Johnston 3881* (Baja California), holotype: GH

Acalypha (Euphorbiaceae)
A. fulva I. M. Johnst.—*Macbride 4011* (Peru), holotype: F
A. macbridei I. M. Johnst.—*Macbride 5093* (Peru), holotype: F
A. skutchii I. M. Johnst.—*Skutch 981* (Guatemala), holotype: A

Acleisanthes (Nyctaginaceae)
A. nana I. M. Johnst.—*Pringle 5081* (Mexico), holotype: GH

Acrospira (Liliaceae)
A.curtisiae I. M. Johnst.—*Curtis 333* (Angola), holotype: GH

Adesmia (Fabaceae)
A. diaziana I. M. Johnst.—*Johnston 5352* (Chile), holotype: GH
A. glandiligera I. M. Johnst.—*Johnston 6117* (Chile), holotype: GH
A. gracillima I. M. Johnst.—*Johnston 5428* (Chile), holotype: GH
A. pirionii I. M. Johnst.—*Jaffuel 228* (Chile), holotype: GH
A. viscidissima I. M. Johnst.—*Johnston 5490* (Chile), holotype: GH

Aeschynomene (Fabaceae)
A. curtisiae I. M. Johnst.—*Curtis 321* (Angola), holotype: GH

Agave (Agavaceae)
A. chrysoglossa I. M. Johnst.—*Johnston 3123* (Baja California), holotype: CAS
A. oweni I. M. Johnst.—*Johnston 3085* (Baja California), holotype: CAS
A. sleviniana I. M. Johnst.—*Johnston 3043* (Baja California), holotype: CAS

Alchemilla (Rosaceae)
A. parodii I. M. Johnst.—*Parodi 6664* (Argentina), holotype: GH

Alnus (Betulaceae)
A. rhombifolia var. *bernardina* Munz & I. M. Johnst.—*Munz & Johnston 8468* (California), holotype: POM

Amaranthus (Amaranthaceae)
A. arenicola I. M. Johnst.—*Hitchcock 428a* (Kansas), holotype: GH
A. retroflexus var. *salicifolius* I. M. Johnst.—*Palmer 2043* (Mexico), holotype: GH
A. warnockii I. M. Johnst.—*Johnston 8886* (Mexico), holotype: GH

Ammoselenium (Apiaceae)
A. occidentale Munz & I. M. Johnst.—*Munz & Keck 4930* (California), holotype: POM

Amyris (Rutaceae)
A. cordata I. M. Johnst.—*Bartlett 10242* (Mexico), holotype: GH

Anemone (Ranunculaceae)
A. cicutifolia I. M. Johnst.—*Venturi 7716* (Argentina), holotype: GH

Antiphytum (Boraginaceae)
A. caespitosum I. M. Johnst.—*Purpus 2606* (Mexico), holotype: GH
A. nudicaules I. M. Johnst.—*Smith 393* (Mexico), holotype: GH

Antrophora (Boraginaceae), gen. nov.
A. williamsii I. M. Johnst.—*Williams & Molina 10960* (Nicaragua), holotype: GH

Anulocaulis (Nyctaginaceae)
A. reflexus I. M. Johnst.—*Johnston & Mueller 10* (Mexico), holotype: GH

Aplopappus (Asteraceae)
A. arenarius var. *incisifolius* I. M. Johnst.—*Johnston 3529* (Baja California), holotype: CAS
A. arenarius var. *rossii* I. M. Johnst.—*Johnston 3627* (Baja California), holotype: CAS

Ardisia (Myrsinaceae)
A. mitchellae I. M. Johnst.—*Mitchell 66* (Honduras), holotype: GH

Aristida (Poaceae)
A. dissita I. M. Johnst.—*Pringle 388* (Mexico), holotype: GH

Aristolochia (Aristolochiaceae)
A. coryi I. M. Johnst.—*Cory 8491* (Texas), holotype: GH
A. lassa I. M. Johnst.—*Palmer 187* (Mexico), holotype: GH
A. whitei I. M. Johnst.—*White 2429* (Mexico), holotype: GH
A. wrightii var. *texana* I. M. Johnst.—*Johnston 7986* (Mexico), holotype: GH

Argylia (Bignoniaceae)
A. sitiens I. M. Johnst.—*Johnston 5467* (Chile), holotype: GH

Asclepias (Asclepiadaceae)
A. eriocarpa var. *microcarpa* Munz & I. M. Johnst.—*Johnston 2833* (California), holotype: POM
A. leptopus I. M. Johnst.—*Johnston 4377* (Baja California), holotype: CAS

Astragalus (Fabaceae)
A. asplundii I. M. Johnst.—*Asplund 6132* (Bolivia), holotype: US
A. burkartii I. M. Johnst.—*Jörgensen 1337* (Argentina), holotype: GH
A. confinis I. M. Johnst.—*Guenther & Buchtien 1081* (Peru), holotype: HBG
A. crymophilus I. M. Johnst.—*Asplund 6134* (Bolivia), holotype: US
A. crypticus I. M. Johnst.—*Burkart 5407* (Argentina), holotype: GH
A. deminutivus I. M. Johnst.—*Fiebrig 2608* (Bolivia), holotype: GH
A. famatinae I. M. Johnst.—*Hieronymus & Niederlein 482* (Argentina), holotype: GH
A. flavocreatus I. M. Johnst.—*Burkart 5385* (Argentina), holotype: GH
A. hypsogenus I. M. Johnst.—*Venturi 10126* (Argentina), holotype: GH
A. joergensenii I. M. Johnst.—*Jörgensen 1126* (Argentina), holotype: GH
A. looserii I. M. Johnst.—*Looser 1132* (Chile), holotype: GH
A. melanogonatus I. M. Johnst.—*Johnston 5353* (Chile), holotype: GH
A. monteroi I. M. Johnst.—*Montero 1161* (Chile), holotype: GH
A. paposanus I. M. Johnst.—*Johnston 5586* (Chile), holotype: GH
A. parodii I. M. Johnst.—*Burkart 7360* (Argentina), holotype: GH
A. pauranthus I. M. Johnst.—*Fischer 99* (Argentina), holotype: GH
A. pulviniformis I. M. Johnst.—*Johnston 6128* (Argentina), holotype: GH
A. punae I. M. Johnst.—*herb. Spegazzini* no. 2111 (Argentina), holotype: LPS
A. ruiz-lealii I. M. Johnst.—*Ruiz Leal* 3343 (Argentina), holotype: GH
A. sprucei I. M. Johnst.—*Spruce 5771* (Ecuador), holotype: GH
A. valerianensis I. M. Johnst.—*Johnston 6033* (Chile), holotype: GH
A. venturii I. M. Johnst.—*Venturi 7417* (Argentina), holotype: US
A. werdermanii I. M. Johnst.—*Werdermann 1439* (Chile), holotype: B

Atriplex (Chenopodiaceae)
A. abata I. M. Johnst.—*Johnston 7617* (Mexico), holotype: GH
A. chapinii I. M. Johnst.—*Chapin 1104* (Chile), holotype: GH
A. clivicola I. M. Johnst.—*Johnston 5239* (Chile), holotype: GH

A. clivicola var. *lopholepis* I. M. Johnst.—*Johnston 5766* (Chile), holotype: GH
A. hypsophila I. M. Johnst.—*Johnston 6168* (Argentina), holotype: GH
A. prosopidum I. M. Johnst.—*Johnston 8877* (Mexico), holotype: GH
A. reptans I. M. Johnst.—*Johnston & Mueller 1081* (Mexico), holotype: GH
A. stewartii I. M. Johnst.—*Johnston & Mueller 777* (Mexico), holotype: GH
A. taltalensis I. M. Johnst.—*Johnston 5379* (Chile), holotype: GH
A. transandina I. M. Johnst.—*Johnston 6148* (Argentina), holotype: GH

Baccharis (Asteraceae)
B. taltalensis I. M. Johnst.—*Johnston 5329* (Chile), holotype: GH

Bargemontia (Nolanaceae)
B. clivicola I. M. Johnst.—*Johnston 6307* (Chile), holotype: GH
B. confinis I. M. Johnst.—*Weberbauer 7382* (Peru), holotype: F
B. deflexa I. M. Johnst.—*Harding s.n.* (Chile), holotype: GH
B. glauca I. M. Johnst.—*Johnston 4770* (Chile), holotype: GH
B. gracillima I. M. Johnst.—*Weberbauer 7457* (Peru), holotype: F
B. inconspicua I. M. Johnst.—*Rose 19416* (Chile), holotype: US
B. platyphylla I. M. Johnst.—*Weberbauer 7455* (Peru), holotype: F
B. tocopillensis I. M. Johnst.—*Johnston 3603* (Chile), holotype: GH

Bauhinia (Fabaceae)
B. thompsonii I. M. Johnst.—*Johnston 539* (Panama), holotype: A

Bernardia (Euphorbiaceae)
B. obovata I. M. Johnst.—*Moore & Steyermark 3289* (Mexico), holotype: GH

Bipinnula (Orchidaceae)
B. taltalensis I. M. Johnst.—*Johnston 5372* (Chile), holotype: GH

Bourreria (Boraginaceae)
B. hintonii I. M. Johnst.—*Hinton 10866* (Mexico), holotype: GH
B. longiflora I. M. Johnst.—*Hinton 15098* (Mexico), holotype: GH
B. rowellii I. M. Johnst.—*Rowell Jr. 3545* (Mexico), holotype: A
B. superba I. M. Johnst.—*Hinton 13834* (Mexico), holotype: GH

Bowlesia (Apiaceae)
B. paposana I. M. Johnst.—*Johnston 5550* (Chile), holotype: GH

Brachystegia (Fabaceae)
B. russelliae I. M. Johnst.—*Curtis 428* (Angola), holotype: GH

Brongniartia (Fabaceae)
B. abbottiae I. M. Johnst.—*Abbott 211* (Mexico), holotype: GH

Buddleia (Loganiaceae)
B. hypsophila I. M. Johnst.—*Skutch 843* (Guatemala), holotype: GH

Bursera (Burseraceae)
B. nesopola I. M. Johnst.—*Mason 1609* (Revillagigedo), holotype: CAS

Cacabus (Solanaceae)
C. flavus I. M. Johnst.—*Pennell 13066* (Peru), holotype: GH

Caiophora (Loasaceae)
C. jorgensenii I. M. Johnst.—*Jörgensen 1163* (Argentina), holotype: GH

Calandrinia (Portulacaceae)
C. adenosperma I. M. Johnst.—*Hinkley 35* (Peru), holotype: GH
C. cephalophora I. M. Johnst.—*Johnston 3591* (Chile), holotype: GH

C. chrysantha I. M. Johnst.—*Johnston 3589* (Chile), holotype: GH
C. lamprosperma I. M. Johnst.—*Johnston 5317* (Chile), holotype: GH
C. sitiensis I. M. Johnst.—*Johnston 5470* (Chile), holotype: GH
C. taltalensis I. M. Johnst.—*Johnston 5284* (Chile), holotype: GH

Calliandra (Fabaceae)
C. socorrensis I. M. Johnst.—*Anthony s.n.* (Mexico), holotype: UC

Cardamine (Brassicaceae)
C. cremnophylla I. M. Johnst.—*Johnston 4927* (Chile), holotype: GH

Carlowrightia (Acanthaceae)
C. californica var. *pallida* I. M. Johnst.—*Johnston 3195* (Baja California), holotype: CAS

Casearia (Flacourtiaceae)
C. stjohnii I. M. Johnst.—*Erlanson 369* (Panama), holotype: A

Cercidium (Fabaceae)
C. australe I. M. Johnst.—*Fischer 20* (Argentina), holotype: GH
C. macrum I. M. Johnst.—*Pringle 2537* (Mexico), holotype: GH
C. molle I. M. Johnst.—*Johnston 3877* (Baja California), holotype: CAS
C. sonorae I. M. Johnst.—*Rose, Standley & Russell 12586* (Mexico), holotype: US

Chiropetalum (Euphorbiaceae)
C. cremnophilum I. M. Johnst.—*Johnston 5779* (Chile), holotype: GH

Claytonia (Portulacaceae)
C. lanceolata var. *peirsonii* Munz & I. M. Johnst.—*Pierson 2151* (California), holotype: UC

Cnidoscolus (Euphorbiaceae)
C. shrevei I. M. Johnst.—*Shreve 9104* (Mexico), holotype: GH

Cobaea (Polemoniaceae)
C. skutchii I. M. Johnst.—*Skutch 1456* (Guatemala), holotype: GH

Coccoloba (Polygonaceae)
C. waittii I. M. Johnst.—*Johnston 230* (Panama), holotype: A

Coldenia (Boraginaceae)
C. canescens var. *pulchella* I. M. Johnst.—*Shreve 6257* (Arizona), holotype: GH
C. canescens var. *subnuda* I. M. Johnst.—*Johnston 3731* (Mexico), holotype: GH
C. conspicua I. M. Johnst.—*Guenther 155* (Peru), holotype: Inst. Bot. Hamburg
C. cuspidata I. M. Johnst.—*Johnston 3617* (Mexico), holotype: CAS
C. ferreyrae I. M. Johnst.—*R. Ferreyra* 2506 (Peru), holotype: A
C. simulans I. M. Johnst.—*Scolnik 1010* (Peru), holotype: A

Colubrina (Rhamnaceae)
C. californica I. M. Johnst.—*Johnston 3496* (Baja California), holotype: CAS

Condalia (Rhamnaceae)
C. fasciculata I. M. Johnst.—*Johnston 7593* (Mexico), holotype: GH
C. globosa I. M. Johnst.—*Johnston 3028* (Baja California), holotype: CAS
C. globosa var. *pubescens* I. M. Johnst.—*Johnston 3201* (Baja California), holotype: CAS
C. parryi var. *microphylla* I. M. Johnst.—*Brandegee s.n.* (Baja California), holotype: UC
C. velutina I. M. Johnst.—*Duges s.n.* (Mexico), holotype: GH
C. viridis I. M. Johnst.—*Johnston 7015* (Mexico), holotype: GH

Cordia (Boraginaceae)
C. axillaris I. M. Johnst.—*Sello 1564* (Brazil), holotype: B

C. axillaris var. *gymnocarpa* I. M. Johnst.—*Claussen s.n.* (Brazil), holotype: K
C. braceliniae I. M. Johnst.—*Mexia 5617* (Brazil), holotype: GH
C. colimensis I. M. Johnst.—*Palmer 898* (Mexico), holotype: GH
C. cordiformis I. M. Johnst.—*Hayes 624* (Guatemala), holotype: GH
C. costaricensis I. M. Johnst.—*Skutch 282* (Costa Rica), holotype: GH
C. coyucana I. M. Johnst.—*Hinton 8156* (Mexico), holotype: GH
C. decipiens I. M. Johnst.—*Krukoff 6048* (Brazil), holotype: A
C. fallax I. M. Johnst.—*Hitchcock 17563* (Guyana), holotype: GH
C. fulva I. M. Johnst.—*Melinon 137* (French Guiana), holotype: GH
C. gardneri I. M. Johnst.—*Gardner 5126* (Brazil), holotype: K
C. globulifera I. M. Johnst.—*Palmer 573* (Mexico), holotype: GH
C. gracilipes I. M. Johnst.—*Hinton 14826* (Mexico), holotype: GH
C. hebeclada I. M. Johnst.—*Killip 34349* (Colombia), holotype: GH
C. hintonii I. M. Johnst.—*Hinton 7740* (Mexico), holotype: GH
C. hirta I. M. Johnst.—*Tate 259* (Venezuela), holotype: NY
C. iguaguana I. M. Johnst.—*Weberbauer 6213* (Peru), holotype: GH
C. inornata I. M. Johnst.—*Mexia 1080* (Mexico), holotype: GH
C. jamaicensis I. M. Johnst.—*Harris 8732* (Jamaica), holotype: GH
C. laevifrons I. M. Johnst.—*Native Collector 236* (Surinam), holotype: U
C. laevior I. M. Johnst.—*Klug 2756* (Peru); holotype: A
C. latiloba I. M. Johnst.—*Glaziou 1106* (Brazil), holotype: K
C. lauta I. M. Johnst.—*Gentry 10878* (Mexico), holotype: A
C. lippioides I. M. Johnst.—*Cerrate 565* (Peru), holotype: GH
C. lomatiloba I. M. Johnst.—*Krukoff 5497* (Brazil), holotype: A
C. lucidula I. M. Johnst.—*Dunlap 284* (Panama), holotype: US
C. mexiana I. M. Johnst.—*Mexia 6459* (Peru), holotype: GH
C. munda I. M. Johnst.—*Cerrate 1294* (Peru), holotype: GH
C. naidophila I. M. Johnst.—*Killip & Smith 30008* (Brazil), holotype: GH
C. nelsonii I. M. Johnst.—*Nelson 6924* (Mexico), holotype: GH
C. nesophila I. M. Johnst.—*Stehle 2678* (Marie Galante), holotype: GH
C. passa I. M. Johnst.—*Chase 7461* (Mexico), holotype: GH
C. protracta I. M. Johnst.—*Cooper 244* (Panama), holotype: GH
C. prunifolia I. M. Johnst.—*Skutch 298* (Guatemala), holotype: A
C. ripicola I. M. Johnst.—*Klug 2262* (Peru), holotype: A, GH
C. roraimae I. M. Johnst.—*Steyermark 59003* (Venezuela), holotype: F
C. setigera I. M. Johnst.—*St. Hilaire B-1478* (Brazil), holotype: P
C. skutchii I. M. Johnst.—*Skutch 1426* (Guatemala), holotype: GH
C. stellifera I. M. Johnst.—*Schipp 1040* (Belize), holotype: GH
C. stenoclada I. M. Johnst.—*Smith 608* (Mexico), holotype: GH
C. subvelutina I. M. Johnst.—*Hinton 15066* (Mexico), holotype: GH
C. ulei I. M. Johnst.—*Ule 9716* (Brazil), holotype: B, K
C. ulei var. *ucayaliensis* I. M. Johnst.—*Tessman 5457* (Peru), holotype: B
C. vargasii I. M. Johnst.—*Vargas 9790* (Peru), holotype: GH
C. varronifolia I. M. Johnst.—*Weberbauer 7138* (Peru), holotype: GH
C. weddellii I. M. Johnst.—*Weddell 3454* (Bolivia), holotype: P

Corethroegyne (Asteraceae)
C. filaginifolia var. *pinetorum* I. M. Johnst.—*Johnston 2137* (California), holotype: GH

Craniospermum (Boraginaceae)
C. mongolicum I. M. Johnst.—*Chaney 195* (Mongolia), holotype: GH

Cristaria (Malvaceae)
C. adenophora I. M. Johnst.—*Greninger 18* (Chile), holotype: GH
C. diaziana I. M. Johnst.—*Johnston 5365* (Chile), holotype: GH
C. formulosa I. M. Johnst.—*Johnston 5819* (Chile), holotype: GH
C. fuentesiana I. M. Johnst.—*Johnston 5686* (Chile), holotype: GH
C. glomerulata I. M. Johnst.—*Johnston 4744* (Chile), holotype: GH
C. intonsa I. M. Johnst.—*Johnston 5267* (Chile), holotype: GH
C. leucantha I. M. Johnst.—*Johnston 5270* (Chile), holotype: GH
C. paposana I. M. Johnst.—*Johnston 5502* (Chile), holotype: GH
C. thinophila I. M. Johnst.—*Johnston 5359* (Chile), holotype: GH

Crotalaria (Fabaceae)
C. bicolor I. M. Johnst.—*Curtis 211* (Angola), holotype: GH

Croton (Euphorbiaceae)
C. masonii I. M. Johnst.—*Mason 1637* (Revillagigedo), holotype: CAS

Cryptantha (Boraginaceae)
C. abramsii I. M. Johnst.—*Abrams 3139* (California), holotype: GH
C. angelica I. M. Johnst.—*Johnston 4221* (Mexico), holotype: CAS
C. argentea I. M. Johnst.—*Johnston 5814* (Chile), holotype: GH
C. barnebyi I. M. Johnst.—*Ripley & Barneby 8748* (Utah), holotype: GH
C. brandegei I. M. Johnst.—*Brandegee s.n.* (California), holotype: GH
C. calycotricha I. M. Johnst.—*Philippi s.n.* (Chile), holotype: SGO
C. clevelandii var. *florosa* I. M. Johnst.—*Macbride & Payson 797* (California), holotype: GH
C. clokei I. M. Johnst.—*Clokey & Ganderson 6859* (California), holotype: GH
C. coryi I. M. Johnst.—*Cory s.n.* (Texas), holotype: GH
C. crassipes I. M. Johnst.—*Cory 18613* (Texas), holotype: GH
C. crassisepala var. *typica* I. M. Johnst.—*Capt. Pope s.n.* (Texas), holotype: NY
C. crassisepala var. *elachantha* I. M. Johnst.—*McVaugh 8040* (Texas), holotype: LL
C. cyrmophila I. M. Johnst.—*Hoover 4193* (California), holotype: GH
C. decipiens var. *corollata* I. M. Johnst.—*Hubby 21* (California), holotype: GH
C. dissita I. M. Johnst.—*Tracy 1744* (California), holotype: GH
C. fastigiata I. M. Johnst.—*Johnston 3505* (Mexico), holotype: GH
C. ganderi I. M. Johnst.—*Gander 5328* (California), holotype: GH
C. gayi I. M. Johnst.—*Gay 1921* (Chile), holotype: SGO
C. grahamii I. M. Johnst.—*Graham 7924* (Utah), holotype: GH
C. grayi var. *nesiotica* I. M. Johnst.—*Johnston 3947* (Mexico), holotype: CAS
C. gypsites I. M. Johnst.—*Correll 19872* (Mexico), holotype: LL
C. hoffmannii I. M. Johnst.—*Hoffmann 78* (California), holotype: GH
C. hooveri I. M. Johnst.—*Hoover 558* (California), holotype: GH
C. hypsophila I. M. Johnst.—*Thompson 14129* (Idaho), holotype: GH
C. inaequata I. M. Johnst.—*Hall & Chandler 6925* (California), holotype: UC
C. latifolia I. M. Johnst.—*Macbride 5861* (Peru), holotype: F

C. macbridei I. M. Johnst.—*Macbride 5869* (Peru), holotype: F
C. mariposae I. M. Johnst.—*Congdon C59* (California), holotype: GH
C. maritima var. *pilosa* I. M. Johnst.—*Palmer 551* (Mexico)
C. mendocina I. M. Johnst.—*Osten 5129* (Argentina), holotype: G-BOIS
C. milobakeri I. M. Johnst.—*Baker 7629* (California), holotype: GH
C. nevadensis var. *rigida* I. M. Johnst.—*Pringle s.n.* (California), holotype: GH
C. peruviana I. M. Johnst.—*Macbride & Featherstone 674* (Peru), holotype: F
C. pterocarya var. *stenoloba* I. M. Johnst.—*Maguire 4466* (Arizona), holotype: GH
C. racemosa var. *lignosa* I. M. Johnst.—*Hall & Chandler 7034* (California), holotype: UC
C. rollinsii I. M. Johnst.—*Rollins 1715* (Utah), holotype: GH
C. romanii I. M. Johnst.—*San Román* s.n. (Chile), holotype: MS
C. spithamaea I. M. Johnst.—*Hoover 2169* (California), holotype: GH
C. subretusa I. M. Johnst.—*Thompson 12206* (Oregon), holotype: GH
C. taltalensis I. M. Johnst.—*Johnston 5121* (Chile), holotype: GH
C. thompsonii I. M. Johnst.—*Thompson 7663* (Washington), holotype: GH
C. torreyana var. *calistogae* I. M. Johnst.—*Tracy 2094* (California), holotype: GH
C. traskae I. M. Johnst.—*Trask s.n.* (California), holotype: GH
C. weberi I. M. Johnst.—*Weber 5778* (Colorado), holotype: GH
C. werdermanniana I. M. Johnst.—*Werdermann 1043* (Chile), holotype: GH
C. wigginsii I. M. Johnst.—*Wiggins 5107* (Mexico), holotype: GH

Cryptosepalum (Fabaceae)
C. curtisiorum I. M. Johnst.—*Curtis 186* (Angola), holotype: GH

Cyperus (Cyperaceae)
C. dioicus I. M. Johnst.—*Johnston 4145* (Baja California), holotype: CAS
C. duripes I. M. Johnst.—*Anthony s.n.* (Revillagigedo), holotype: UC

Cyphomeris (Nyctaginaceae)
C. gypsophiloides var. *stewartii* I. M. Johnst.—*Stewart 1943* (Mexico), holotype: GH

Dasylirion (Agavaceae)
D. heteracanthum I. M. Johnst.—*Johnston 8428* (Mexico), holotype: GH
D. stewartii I. M. Johnst.—*Stewart 823* (Mexico), holotype: GH
D. stewartii var. *glaucum* I. M. Johnst.—*Stewart 957* (Mexico), holotype: GH

Dasynotus (Boraginaceae), gen. nov.
D. daubenmirei I. M. Johnst.—*Daubenmire 46289* (Idaho), holotype: GH

Dioscorea (Dioscoreaceae)
D. cylindrostachya I. M. Johnst.—*Johnston 5394* (Chile), holotype: GH

Dolichos (Fabaceae)
D. linearifolius I. M. Johnst.—*Curtis 230* (Angola), holotype: GH

Domeykoa (Apiaceae)
D. perennis I. M. Johnst.—*Johnston 5689* (Chile), holotype: GH

Downingia (Campanulaceae)
D. immaculata Munz & I. M. Johnst.—*Munz 5093* (California), holotype: POM

Drymaria (Caryophyllaceae)
D. elata I. M. Johnst.—*Johnston 7823* (Mexico), holotype: GH

D. lyropetala I. M. Johnst.—*Johnston 7594* (Mexico), holotype: GH
D. lyropetala var. *coahuilana* I. M. Johnst.—*Johnston 567* (Mexico), holotype: GH
D. subumbellata I. M. Johnst.—*Johnston 8489* (Mexico), holotype: GH

Dussia (Fabaceae)
D. grandifrons I. M. Johnst.—*Skutch 2027* (Guatemala), holotype: A

Echiochilon (Boraginaceae)
E. adenophorum I. M. Johnst.—*Glover 1181* (Somalia), holotype: BM
E. collenittei I. M. Johnst.—*Collenitte 196* (Somalia), holotype: K
E. jugatum I. M. Johnst.—*Bent 21* (Dhofar), holotype: K
E. nubicum I. M. Johnst.—*Schweinfurth 2108* (Sudan), holotype: K
E. thesigeri I. M. Johnst.—*Thesiger s.n.* (Oman), holotype: BM

Ehretia (Boraginaceae)
E. confinis I. M. Johnst.—*Forrest 26357* (China), holotype: A
E. dicksoni var. *tilioides* I. M. Johnst.—*Steward 357* (China), holotype: A
E. hainanensis I. M. Johnst.—*Chun 44626* (China), holotype: A
E. tsangii I. M. Johnst.—*Tsang 21888* (China), holotype: A

Ekebergia (Meliaceae)
E. pumila I. M. Johnst.—*Curtis 258* (Angola), holotype: GH

Ephedra (Ephedraceae)
E. peninsularis I. M. Johnst.—*Brandegee s.n.* (Baja California), holotype: UC
E. wraithiana I. M. Johnst.—*Johnston 3705* (Chile), holotype: GH

Eremocharis (Apiaceae)
E. confinus I. M. Johnst.—*Weberbauer 7369* (Peru), holotype: F
E. dissecta I. M. Johnst.—*Weberbauer 7761* (Peru), holotype: F

Eriogonum (Polygonaceae)
E. fasciculatum var. *flavoviride* Munz & I. M. Johnst.—*Munz 4505* (California), holotype: POM
E. galioides I. M. Johnst.—*Johnston 3315* (Baja California), holotype: CAS
E. hemipterum var. *griseum* I. M. Johnst.—*Johnston & Mueller 547* (Mexico), holotype: GH
E. kennedyi var. *austromontanum* Munz & I. M. Johnst.—*Munz 6208* (California), holotype: POM
E. nodosum var. *jaegeri* Munz & I. M. Johnst.—*Jaeger 251* (California), holotype: POM
E. umbellatum var. *minus* I. M. Johnst.—*Johnston 1692* (California), holotype: UC

Eriosema (Fabaceae)
E. laetum I. M. Johnst.—*White 2650* (Mexico), holotype: GH

Eritrichium (Boraginaceae)
E. elongatum var. *paysoni* I. M. Johnst.—*Maguire 14385* (Utah), holotype: GH
E. laxum I. M. Johnst.—*Ludlow 5619* (Tibet), holotype: GH

Erodium (Geraniaceae)
E. chilense I. M. Johnst.—*Looser 739* (Chile), holotype: GH

Euphorbia (Euphorbiaceae)
E. ceroderma I. M. Johnst.—*Johnston 4304* (Baja California), holotype: CAS
E. chamberlini I. M. Johnst.—*Johnston 4136* (Baja California), holotype: CAS
E. hinkleyorum I. M. Johnst.—*Hinkley 7* (peru), holotype: GH
E. peninsularis I. M. Johnst.—*Purpus 325* (Baja California), holotype: UC
E. podagrica I. M. Johnst.—*Purpus 6437* (Nevada), holotype: UC

Euphrasia (Scrophulariaceae)
E. adenonota I. M. Johnst.—*Johnston 6067* (Chile), holotype: GH

Euplassa (Proteaceae)
E. occidentalis I. M. Johnst.— *Hitchcock 21311* (Ecuador), holotype: GH

Fagonia (Zygophyllaceae)
F. cretica var. *canariensis* I. M. Johnst.—*Ball s.n.* (Canary Islands), holotype: GH
F. densa I. M. Johnst.—*Johnston 3532* (Baja California), holotype: CAS

Fendlera (Hydrangeaceae)
F. rigida I. M. Johnst.—*Johnston & Mueller 912* (Mexico), holotype: GH

Ficus (Moraceae)
F. bullenei I. M. Johnst.—*Johnston 389* (Panama), holotype: A
F. campbellii I. M. Johnst.—*Johnston 721* (Panama), holotype: A
F. leavensii I. M. Johnst.—*Johnston 1125* (Panama), holotype: A
F. leavensii var. *thinophila* I. M. Johnst.—*Johnston 1012* (Panama), holotype: A

Fouquieria (Fouquieriaceae)
F. shrevei I. M. Johnst.—*Johnston 7815* (Mexico), holotype: GH

Frankenia (Frankeniaceae)
F. gypsophila I. M. Johnst.—*Johnston 7614* (Mexico), holotype: GH

Fuchsia (Onagraceae)
F. abrupta I. M. Johnst.—*Macbride 4541* (Peru), holotype: F
F. andrei I. M. Johnst.—*André 820* (Colombia), holotype: F
F. apiculata I. M. Johnst.— *Hitchcock 21667* (Ecuador), holotype: GH
F. atrorubra I. M. Johnst.—*Pennell 10313* (Colombia), holotype: GH
F. austromontana I. M. Johnst.—*West 7083* (Peru), holotype: UC
F. boliviana var. *luxurians* I. M. Johnst.—*Pittier 9252* (Venezuela), holotype: GH
F. chloroloba I. M. Johnst.—*Pennell 13973* (Peru), holotype: GH
F. furfuraceae I. M. Johnst.—*Bang 674* (Bolivia), holotype: GH
F. glaberrima I. M. Johnst.—*Hitchcock 21750* (Ecuador), holotype: GH
F. hitchcockii I. M. Johnst.—*Hitchcock 21603* (Ecuador), holotype: GH
F. hypoleuca I. M. Johnst.—*Hitchcock 21440* (Ecuador), holotype: GH
F. killipii I. M. Johnst.—*Killip & Smith 16695* (Colombia), holotype: GH
F. macrophylla I. M. Johnst.—*Macbride 5616* (Peru), holotype: F
F. perbrevis I. M. Johnst.—*Holton 892* (Colombia), holotype: NY
F. platypetala I. M. Johnst.—*West 3705* (Peru), holotype: UC
F. polyanthella I. M. Johnst.—*Macbride 4290* (Peru), holotype: F
F. spectabilis var. *pubens* I. M. Johnst.—*Rose & Rose 22479* (Ecuador), holotype: US
F. steinbachii I. M. Johnst.—*Steinback 5038* (Bolivia), holotype: NY
F. townsendii I. M. Johnst.—*Townsend A93* (Ecuador), holotype: US
F. velutina I. M. Johnst.—*Macbride 3715* (Peru), holotype: F

Gallium (Rubiaceae)
G. angustifolium var. *pinetorum* Munz & I. M. Johnst.—*Davidson s.n.* (California), holotype: UC
G. gabrielense Munz & I. M. Johnst.—*Munz 6078* (California), holotype: POM
G. hallii Munz & I. M. Johnst.—*Johnston 2067* (California), holotype: UC

Genestidium (Fabaceae), gen. nov.
G. *dumosum* I. M. Johnst.—*Johnston & Mueller 944* (Mexico), holotype: GH

Geranium (Geraniaceae)
G. parodii I. M. Johnst.—*Parodi 7514* (Argentina), holotype: GH

Gilbertia (Araliaceae)
G. amplifolia I. M. Johnst.—*Smith 1778* (Colombia), holotype: GH
G. eurycarpa I. M. Johnst.—*Pringle 3723* (Mexico), holotype: GH
G. smithiana I. M. Johnst.—*von Türckheim 11407* (Guatemala), holotype: GH

Gilia (Polemoniaceae)
G. calothyrsa I. M. Johnst.—*Stewart 1044* (Mexico), holotype: GH
G. chachanensis I. M. Johnst.—*Hinkley 25* (Peru), holotype: GH
G. inyoensis I. M. Johnst.—*Heller 8281* (California), holotype: GH
G. platyloba I. M. Johnst.—*Palmer 799* (Mexico), holotype: GH
G. stewartii I. M. Johnst.—*Johnston & Mueller 1258* (Mexico), holotype: GH

Gnaphalium (Asteraceae)
G. albidum I. M. Johnst.—*Spencer 69* (California), holotype: GH
G. texanum I. M. Johnst.—*Harvard 26* (Texas), holotype: GH
G. viridulum I. M. Johnst.—*Metcalfe 742* (New Mexico), holotype: GH

Hackelia (Boraginaceae)
H. echinocarya I. M. Johnst.—*Wang 70292* (China), holotype: GH
H. leonotis I. M. Johnst.—*Mueller 2255* (Mexico), holotype: GH
H. longituba I. M. Johnst.—*Eastwood & Howell 8593* (California), holotype: GH
H. sharsmithii I. M. Johnst.—*Sharsmith 3354* (California), holotype: GH
H. skutchii I. M. Johnst.—*Skutch 1103* (Guatemala), holotype: GH
H. stewartii I. M. Johnst.—*Stewart 19526* (Kashmir), holotype: GH
H. stricta I. M. Johnst.—*Rose & Painter 7932* (Mexico), holotype: GH

Haploesthes (Asteraceae)
H. greggii var. *multiflora* I. M. Johnst.—*Palmer 206* (Mexico), holotype: GH
H. robusta I. M. Johnst.—*White 1923* (Mexico), holotype: GH

Harpagonella (Boraginaceae)
H. palmeri var. *arizonica* I. M. Johnst.—*Parish 162* (Arizona), holotype: GH

Havilandia (Boraginaceae)
H. opaca I. M. Johnst.—*Brass 4178* (Guyana), holotype: GH, NY
H. robusta I. M. Johnst.—*Brass 5681* (Guyana), holotype: NY

Heliotropium (Boraginaceae)
H. adenogynum I. M. Johnst.—*Macbride 495* (Peru), holotype: F
H. anomalum var. *mediale* I. M. Johnst.—*St. John 17486* (Christmas Island), holotype: BISH
H. arborescens var. *grisellum* I. M. Johnst.—*Weberbauer 7272* (Peru), holotype: F
H. catamarcense I. M. Johnst.—*Jorgensen 1868* (Argentina), holotype: GH
H. confertifolium var. *coldenioides* I. M. Johnst.—*Stanford 744* (Mexico), holotype: GH
H. cornutum I. M. Johnst.—*Hohenacker 82* (India), holotype: BM
H. cremnogenum I. M. Johnst.—*Hinton 8514* (Mexico), holotype: GH
H. curassavicum var. *argentinum* I. M. Johnst.—*Jorgensen 2243* (Argentina), holotype: GH
H. curassavicum var. *fruticulosum* I. M. Johnst.—*Ruiz Leal 18840* (Argentina), holotype: LL
H. elongatum var. *burchellii* I. M. Johnst.—*Burchell 8191* (Brazil), holotype: GH
H. eremogenum I. M. Johnst.—*Jaffuel 1120* (Chile), holotype: GH

H. erianthum I. M. Johnst.—*Weberbauer 6332* (Peru), holotype: GH
H. fallax I. M. Johnst.—*Skutch 1922* (Guatemala), holotype: GH
H. fallax var. *hintonii* I. M. Johnst.—*Hinton 3631* (Mexico), holotype: GH
H. ferreyrae I. M. Johnst.—*Ferreyra 6044* (Peru), holotype: A
H. formosanum I. M. Johnst.—*Henry 956* (Taiwan), holotype: NY
H. genovefae I. M. Johnst.—*Leonard 13851* (Haiti), holotype: US
H. huascoense I. M. Johnst.—*Lopez s.n.* (Chile), holotype: GH
H. jaffuellii I. M. Johnst.—*Jaffuel 2524* (Chile), holotype: GH
H. karwinskii I. M. Johnst.—*Karwinsky 646* (Mexico), holotype: LE
H. lobbii I. M. Johnst.—*Lobb s.n.* (Peru), holotype: K
H. mandonii I. M. Johnst.—*Mandon 387* (Bolivia), holotype: GH
H. margaritense Hassler ex I. M. Johnst.—*Hassler 10992* (Paraguay), holotype: B
H. michoacanum I. M. Johnst.—*Hinton 15069* (Mexico), holotype: GH
H. oxylobum I. M. Johnst.—*Pearce s.n.* (Peru), holotype: K
H. pallescens I. M. Johnst.—*Rojas in* Pl. Hassler Parag. no. 2477 (Paraguay), holotype: GH
H. philippianum I. M. Johnst.—*Johnston 5233* (Chile), holotype: GH
H. pilosum var. *albatum* I. M. Johnst.—*Ball s.n.* (Peru), holotype: K
H. piurense I. M. Johnst.—*Haught & Svenson 11553* (Peru), holotype: GH
H. polyanthellum I. M. Johnst.—*Weberbauer 6184* (Peru), holotype: F
H. purdei I. M. Johnst.—*Purdie s.n.* (Colombia), holotype: K
H. queretaroanum I. M. Johnst.—*Rose 9800* (Mexico), holotype: US
H. rufipilum var. *anadenum* I. M. Johnst.—*Hitchcock 19932* (Ecuador), holotype: GH
H. ruiz-lealii I. M. Johnst.—*Ruiz Leal* 18837 (Argentina), holotype: LL
H. schreiteri I. M. Johnst.—*Schreiter 3603* (Argentina), holotype: GH
H. sessei I. M. Johnst.—*Purpus 1402* (Mexico), holotype: GH
H. texanum I. M. Johnst.—*Lundell 14721* (Texas), holotype: GH
H. tiaridioides var. *schizocarpum* I. M. Johnst.—*Jorgensen 3242* (Argentina), holotype: GH
H. toratense I. M. Johnst.—*Weberbauer 7407* (Peru), holotype: F
H. wigginsii I. M. Johnst.—*Wiggins & Rollins 115* (Mexico), holotype: GH

Hexaptera (Brassicaceae)
H. macrocarpa I. M. Johnst.—*Johnston 6058* (Chile), holotype: GH

Hippocratea (Hippocrateaceae)
H. mitchellae I. M. Johnst.—*Mitchell 74* (Honduras), holotype: GH

Hofmeisteria (Asteraceae)
H. filifolia I. M. Johnst.—*Johnston 3418* (Baja California), holotype: CAS
H. pluriseta var. *pauciseta* I. M. Johnst.—*Johnston 3134* (Baja California), holotype: CAS

Hosackia (Fabaceae)
H. argophylla var. *decora* I. M. Johnst.—*Johnston 1278* (California), holotype: POM

Houstonia (Rubiaceae)
H. australis I. M. Johnst.—*Brandegee s.n.* (Baja California), holotype: UC
H. gracilenta I. M. Johnst.—*Johnston 3927* (Baja California), holotype: CAS

Hymenoxys (Asteraceae)
H. parodii I. M. Johnst.—*Parodi 8170a* (Argentina), holotype: GH

Hypericum (Clusiaceae)
H. eastwoodiamum I. M. Johnst.—*Mason 1614* (Revillagigedo), holotype: CAS

Hyptis (Lamiaceae)
H. emoryi var. *amplifolia* I. M. Johnst.—*Johnston 3852* (Baja California), holotype: CAS

Hysterionica (Asteraceae)
H. caurina I. M. Johnst.—*Parodi 9052* (Argentina), holotype: GH

Ilex (Aquifoliaceae)
I. ampla I. M. Johnst.—*Skutch 1320* (Guatemala), holotype: A
I. gracilipes I. M. Johnst.—*Skutch 1060* (Guatemala), holotype: A
I. quercetorum I. M. Johnst.—*Skutch 1663* (Guatemala), holotype: GH

Indigofera (Fabaceae)
I. argentata I. M. Johnst.—*Johnston 4036* (Baja California), holotype: CAS
I. latipinna I. M. Johnst.—*Curtis 360* (Angola), holotype: GH

Ipomoea (Convolvulaceae)
I. halierca I. M. Johnst.—*Mason 1553* (Revillagigedo), holotype: CAS

Jacaratia (Caricaceae)
J. costaricensis I. M. Johnst.—*Tonduz 12881* (Costa Rica), holotype: GH

Jacquemontia (Convolvulaceae)
J. eastwoodiana I. M. Johnst.—*Johnston 3742* (Baja California), holotype: CAS

Lactuca (Asteraceae)
L. tinctociliata I. M. Johnst.—*Curtis 283* (Angola), holotype: GH
L. varianii I. M. Johnst.—*Curtis 225* (Angola), holotype: GH

Lasiarrhenum (Boraginaceae), gen. nov.
L. lundellii I. M. Johnst.—*Lundell 12296* (Mexico), holotype: LL
L. pinetorum I. M. Johnst.—*Ghiesbreght 311* (Mexico), holotype: P

Lathyrus (Fabaceae)
L. lomanus I. M. Johnst.—*Johnston 5430* (Chile), holotype: GH

Leiphaimos (Gentianaceae)
L. stenoloba I. M. Johnst.—*Johnston 1116* (Panama), holotype: A

Leucophyllum (Scrophulariaceae)
L. candidum I. M. Johnst.—*Johnston & Mueller 160* (Mexico), holotype: GH
L. griseum I. M. Johnst.—*Johnston & Mueller 341* (Mexico), holotype: GH
L. pruinosum I. M. Johnst.—*Johnston 7569* (Mexico), holotype: GH
L. virescens I. M. Johnst.—*Shreve 9101* (Mexico), holotype: GH
L. zygophyllum I. M. Johnst.—*Mueller & Mueller 1299* (Mexico), holotype: GH

Linum (Linaceae)
L. cremnophila I. M. Johnst.—*Johnston 5707* (Chile), holotype: GH
L. parvum I. M. Johnst.—*Johnston 3549* (Peru), holotype: GH

Lithodora (Boraginaceae)
L. moroccana I. M. Johnst.—*Mauricio & Sennen 7946* (Morocco), holotype: BM

Lithospermum (Boraginaceae)
L. berlandieri I. M. Johnst.—*McVaugh 10517* (Mexico), holotype: GH
L. confine I. M. Johnst.—*H. Mueller* 2378 (Mexico), holotype: GH
L. hypoleucum I. M. Johnst.—*Arsene 2511* (Mexico), holotype: GH
L. indecorum I. M. Johnst.—*Mueller 2380* (Mexico), holotype: GH
L. jimulcense I. M. Johnst.—*Stanford 100* (Mexico), holotype: GH
L. lasiosiphon I. M. Johnst.—*Townsend & Barber 248* (Mexico), holotype: GH
L. macbridei I. M. Johnst.—*Macbride & Featherstone 1185* (Peru), holotype: F

L. mediale I. M. Johnst.—*Seler 2893* (Guatemala), holotype: GH
L. muelleri I. M. Johnst.—*Mueller 739* (Mexico), holotype: GH
L. obtusifolium I. M. Johnst.—*Schaffner 728* (Mexico), holotype: GH
L. parksii I. M. Johnst.—*McVaugh 7725* (Texas), holotype: GH
L. parksii var. *rugulosum* I. M. Johnst.—*Mueller 598* (Mexico), holotype: GH
L. pringlei I. M. Johnst.—*Pringle 12123* (Mexico), holotype: GH
L. seleri I. M. Johnst.—*Seler 847* (Mexico), holotype: GH
L. shepardae I. M. Johnst.—*Shepard 114* (Peru), holotype: GH

Lupinus (Fabaceae)
L. elatus I. M. Johnst.—*Johnston 1627* (California), holotype: UC

Lycium (Solanaceae)
L. leiospermum I. M. Johnst.—*Johnston 7611* (Mexico), holotype: GH
L. modestum I. M. Johnst.—*Johnston 7605* (Mexico), holotype: GH
L. penduliflorum I. M. Johnst.—*Johnston 6120* (Argentina), holotype: GH

Mabea (Euphorbiaceae)
M. macbridei I. M. Johnst.—*Macbride 5702* (Peru), holotype: F

Macromeria (Boraginaceae)
M. barbigera I. M. Johnst.—*Mueller 741* (Mexico), holotype: GH
M. guatemalensis I. M. Johnst.—*Steyermark 35898* (Guatemala), holotype: GH
M. leontis I. M. Johnst.—*Mueller 754* (Mexico), holotype: GH
M. notata I. M. Johnst.—*Mueller 830* (Mexico), holotype: GH

Macrosiphonia (Apocynaceae)
M. hesperia I. M. Johnst.—*Johnston 3807* (Baja California), holotype: CAS

Maharanga (Boraginaceae)
M. bhutanica I. M. Johnst.—*Ludlow 12598* (Bhutan), holotype: BM

Mahonia (Berberidaceae)
M. muelleri I. M. Johnst.—*Mueller & Mueller 803* (Mexico), holotype: GH

Malvastrum (Malvaceae)
M. arequipense I. M. Johnst.—*Hinkley 43a* (Peru), holotype: GH
M. catamarcense I. M. Johnst.—*Jörgensen 1388* (Argentina), holotype: GH
M. clementinum Munz & I. M. Johnst.—*Munz 6684* (California), holotype: POM
M. congestiflorum I. M. Johnst.—*Hinckley 37* (Peru), holotype: GH
M. gabrielense Munz & I. M. Johnst.—*Pierson 774* (California), holotype: POM
M. hinkleyorum I. M. Johnst.—*Hinkley 43* (Peru), holotype: GH
M. jorgensenii I. M. Johnst.—*Jörgensen 1389* (Argentina), holotype: GH
M. shepardae I. M. Johnst.—*Shepard 123* (Peru), holotype: GH

Margyricarpus (Rosaceae)
M. inermis I. M. Johnst.—*Venturi 6633* (Argentina), holotype: US
M. paucijugatus I. M. Johnst.—*Jörgensen 1143* (Argentina), holotype: GH

Mastigostyla (Iridaceae), gen. nov.
M. cyrtophylla I. M. Johnst.—*Hinkley 16* (Peru), holotype: GH

Mathwesia (Brassicaceae)
M. collina I. M. Johnst.—*Johnston 3599* (Chile), holotype: GH

Maurandya (Scrophulariaceae)
M. coccinea I. M. Johnst.—*Stewart 2742* (Mexico), holotype: GH
M. flaviflora I. M. Johnst.—*Johnston 3504* (Baja California), holotype: CAS

Maximowiczia (Cucurbitaceae)
M. sonorae var. *peninsularis* I. M. Johnst.—*Johnston 4026* (Baja California), holotype: CAS

Meliosma (Sabiaceae)
M. nesites I. M. Johnst.—*Mason 1627* (Revillagigedo), holotype: CAS

Mentzelia (Loasaceae)
M. hirsutissima var. *nesiotes* I. M. Johnst.—*Brandegee s.n.* (Baja California), holotype: UC
M. involucrata var. *megalantha* I. M. Johnst.—*Hall 5839* (California), holotype: UC
M. pachyrhiza I. M. Johnst.—*Johnston 7717* (Mexico), holotype: GH
M. tricuspis var. *brevicornuta* I. M. Johnst.—*K. Brandegee s.n.* (California), holotype: UC

Microula (Boraginaceae)
M. hirsuta I. M. Johnst.—*Rock 10439* (China), holotype: GH
M. rockii I. M. Johnst.—*Rock 14511* (Tibet), holotype: GH

Milla (Liliaceae)
M. bryani I. M. Johnst.—*Johnston 8529* (Mexico), holotype: GH

Misanteca (Lauraceae)
M. costaricensis I. M. Johnst.—*Brenes 14402* (Costa Rica), holotype: GH
M. peckii I. M. Johnst.—*Peck 826* (Belize), holotype: GH

Monardella (Lamiaceae)
M. lanceolata var. *glandulifera* I. M. Johnst.—*Johnston 2139* (California), holotype: GH
M. saxicola I. M. Johnst.—*Johnston 2133* (California), holotype: POM

Monina (Polygalaceae)
M. argentina I. M. Johnst.—*Parodi 7805* (Argentina), holotype: GH
M. ramosa I. M. Johnst.—*Hinkley 13* (Peru), holotype: GH

Moritzia (Boraginaceae)
M. dusenii I. M. Johnst.—*Dusen 17273* (Brazil), holotype: G

Mortonia (Celastraceae)
M. latisepala I. M. Johnst.—*Wynd & Mueller 100* (Mexico), holotype: GH

Muhlenbeckia (Polygonaceae)
M. dumosa I. M. Johnst.—*Hinkley 48* (Peru), holotype: GH

Muhlenbergia (Poaceae)
M. abata I. M. Johnst.—*Wright 1982* (Texas), holotype: GH
M. marshii I. M. Johnst.—*Marsh 746* (Mexico), holotype: GH
M. mundula I. M. Johnst.—*Pringle 417* (Mexico), holotype: GH

Nama (Hydrophyllaceae)
N. hispidum var. *gypsicola* I. M. Johnst.—*Johnston 7633* (Mexico), holotype: GH
N. serpylloides var. *confertum* I. M. Johnst.—*Johnston 7126* (Mexico), holotype: GH
N. stewartii I. M. Johnst.—*Johnston & Mueller 814* (Mexico), holotype: GH

Nerisyrenia (Brassicaceae)
N. gracilis I. M. Johnst.—*Johnston 7583* (Mexico), holotype: GH

Nicotiana (Solanaceae)
N. nesophila I. M. Johnst.—*Mason 1596* (Revillagigedo), holotype: CAS

Nolana (Nolanaceae)
N. arenicola I. M. Johnst.—*Werdermann 730* (Peru), holotype: GH
N. diffusa I. M. Johnst.—*Johnston 5384* (Chile), holotype: GH
N. guentheri I. M. Johnst.—*Guenther & Buchtien 113* (Peru), holotype: HBG

N. intonsa I. M. Johnst.—*Martens s.n.* (Chile), holotype: GH
N. jafuelii I. M. Johnst.—*Johnston 3604* (Chile), holotype: GH
N. latipes I. M. Johnst.—*Weberbauer 1498* (Peru), holotype: B
N. lycioides I. M. Johnst.—*Weberbauer 1517* (Peru), holotype: B
N. pallida I. M. Johnst.—*Weberbauer 7183* (Peru), holotype: B
N. pallidula I. M. Johnst.—*Werdermann 728* (Peru), holotype: GH
N. pearcei I. M. Johnst.—*Pearce s.n.* (Peru), holotype: K
N. pilosa I. M. Johnst.—*Guenther & Buchtien 117* (Peru), holotype: HBG
N. plicata I. M. Johnst.—*Weberbauer 7190* (Peru), holotype: GH
N. ramosissima I. M. Johnst.—*Johnston 5590* (Chile), holotype: GH
N. stenophylla I. M. Johnst.—*Johnston 5272* (Chile), holotype: GH
N. thinophila I. M. Johnst.—*Pennell 14280* (Peru), holotype: GH
N. weberbaueri I. M. Johnst.—*Weberbauer 5385* (Peru), holotype: GH
N. werdermannii I. M. Johnst.—*Werdermann 169* (Chile), holotype: GH

Nolina (Agavaceae)
N. micrantha I. M. Johnst.—*Johnston & Mueller 1326* (Mexico), holotype: GH

Nomosa (Boraginaceae), gen. nov.
N. rosei I. M. Johnst.—*Rose 2360* (Mexico), holotype: GH

Ochna (Ochnaceae)
O. angolensis I. M. Johnst.—*Curtis 158* (Angola), holotype: GH

Ochroma (Bombacaceae)
O. peruviana I. M. Johnst.—*Kanehira 354* (Peru), holotype: GH

Ocimum (Lamiaceae)
O. cuanzae I. M. Johnst.—*Curtis 342* (Angola), holotype: GH

Oenothera (Onagraceae)
O. arequipensis Munz & I. M. Johnst.—*Hitchcock 22403* (Peru), holotype: US
O. cardiophylla var. *splendens* Munz & I. M. Johnst.—*Grinell s.n.* (California), holotype: UC
O. featherstonei Munz & I. M. Johnst.—*Macbride & Featherstone 270* (Peru), holotype: F
O. fusiformis Munz & I. M. Johnst.—*Hitchcock 21350* (Ecuador), holotype: US
O. laciniata var. *limensis* Munz & I. M. Johnst.—*Macbride 5950* (Peru), holotype: F
O. verrucosa I. M. Johnst.—*Hinkley 17* (Peru), holotype: GH

Omphalodes (Boraginaceae)
O. erecta I. M. Johnst.—*Mueller 992* (Mexico), holotype: GH

Onosma (Boraginaceae)
O. adenopus I. M. Johnst.—*Yu 12909* (China), holotype: GH
O. barbigerum I. M. Johnst.—*Duthie 8682* (Baluchistan), holotype:
O. chitralicum I. M. Johnst.—*Toppin 481* (India), holotype: K
O. dumetorum I. M. Johnst.—*Yu 16629* (China), holotype: GH
O. egregium I. M. Johnst.—*Reid s.n.* (India), holotype: E
O. farrerii I. M. Johnst.—*Farrer 3* (China), holotype: GH
O. fistulosum I. M. Johnst.—*Yu 14385* (China), holotype: GH
O. hypoleucum I. M. Johnst.—*Falconer s.n.* (India), holotype: GH
O. kashmirica I. M. Johnst.—*Stewart 10053* (India), holotype: GH
O. khyberianum I. M. Johnst.—*Johnston 22* (India), holotype: E

O. limitaneum I. M. Johnst.—*Collector unknown 18927* (Baluchistan), holotype: DD
O. limitaneum var. *majus* I. M. Johnst.—*Griffith 5946* (Afghanistan), holotype: GH
O. limitaneum var. *parviflorum* I. M. Johnst.—*Griffith 5949* (Afghanistan), holotype: GH
O. mertensioides I. M. Johnst.—*Stevens 483* (China), holotype: GH
O. microstoma I. M. Johnst.—*Yu 17727* (China), holotype: GH
O. multiramosum var. *mekongense* I. M. Johnst.—*K. Ward 492* (China), holotype: E
O. tsiangii I. M. Johnst.—*Tsiang 11201* (China), holotype: GH
O. verruculosum I. M. Johnst.—*Dhwog 161* (Nepal), holotype: E
O. waddellii var. *brachylinum* I. M. Johnst.—*Norton 312* (China), holotype: K

Onosmodium (Boraginaceae)
O. dodrantale I. M. Johnst.—*Mueller 2259* (Mexico), holotype: GH

Oreomyrrhis (Apiaceae)
O. daucifolia I. M. Johnst.—*Skutch 1263* (Guatemala), holotype: GH
O. orizabae I. M. Johnst.—*Pringle 8546* (Mexico), holotype: GH
O. tolucana I. M. Johnst.—*Pringle 4236* (Mexico), holotype: GH

Pachylaena (Asteraceae)
P. rosea I. M. Johnst.—*Johnston 5897* (Chile), holotype: GH

Palaua (Malvaceae)
P. inconspicua I. M. Johnst.—*Johnston 3516* (Chile), holotype: GH

Pasithea (Liliaceae)
P. caerula var. *grandiflora* I. M. Johnst.—*Johnston 3608* (Chile), holotype: GH

Patima (Rubiaceae)
P. formicaria I. M. Johnst.—*Hitchcock 17348* (Guyana), holotype: GH

Pectis (Asteraceae)
P. incisifolia I. M. Johnst.—*Johnston 7824* (Mexico), holotype: GH

Pectocarya (Boraginaceae)
P. anomala I. M. Johnst.—*Hinkley 41* (Peru), holotype: GH
P. linearis var. *ferocula* I. M. Johnst.—*Munz 11846* (California), holotype: GH
P. peninsularis I. M. Johnst.—*Wiggins 4305* (Mexico), holotype: GH
P. recurvata I. M. Johnst.—*Harrison 6507* (Mexico), holotype: GH

Penstemon (Scrophulariaceae)
P. clevelandii var. *angelicus* I. M. Johnst.—*Johnston 3413* (Baja California), holotype: CAS
P. clevelandii var. *connatus* Munz & I. M. Johnst.—*Hall 2149* (California), holotype: UC
P. munzii I. M. Johnst.—*Munz, Johnston & Harwood 4271* (California), holotype: POM
P. peirsoni Munz & I. M. Johnst.—*Munz 6999* (California), holotype: POM

Periloba (Nolanaceae)
P. insularis I. M. Johnst.—*Murphy 3472* (Peru), holotype: BKL

Perityle (Asteraceae)
P. castillonii I. M. Johnst.—*Johnston & Mueller 1359* (Mexico), holotype: GH

Persea (Lauraceae)
P. hartmanii I. M. Johnst.—*Hartman 1029* (Mexico), holotype: GH
P. podadenia var. *glabriramea* I. M. Johnst.—*Botteri 81* (Mexico), holotype: GH

Petrogenia (Convolvulaceae), gen. nov.
P. repens I. M. Johnst.—*Johnston & Mueller 731* (Mexico), holotype: GH

Peucephyllum (Asteraceae)
P. schottii var. *latisetum* I. M. Johnst.—*Johnston 3644* (Baja California), holotype: CAS

Phacelia (Hydrophyllaceae)
P. gypsogenia I. M. Johnst.—*Johnston & Mueller 1266* (Mexico), holotype: GH
P. infundibuliformis var. *phanerandra* I. M. Johnst.—*Stewart 2241* (Mexico), holotype: GH
P. keckii Munz & I. M. Johnst.—*Munz 7056* (California), holotype: POM
P. pallida I. M. Johnst.—*Johnston 8486* (Mexico), holotype: GH
P. petiolata I. M. Johnst.—*Johnston 8040* (Mexico), holotype: GH
P. teucriifolia I. M. Johnst.—*Marsh 2120* (Mexico), holotype: GH

Philodendron (Araceae)
P. erlansonii I. M. Johnst.—*Johnston 967* (Panama), holotype: A
P. harlowii I. M. Johnst.—*Johnston 1030* (Panama), holotype: A

Phoebe (Lauraceae)
P. longipes I. M. Johnst.—*Pringle 8829* (Mexico), holotype: GH

Phorodendron (Loranthaceae)
P. flavum I. M. Johnst.—*Palmer 777* (Mexico), holotype: GH

Physalis (Solanaceae)
P. crassifolia var. *infundibularis* I. M. Johnst.—*Johnston 4203* (Baja California), holotype: CAS

Plagiobothrys (Boraginaceae)
P. californicus var. *fulvescens* I. M. Johnst.—*Brandegee s.n.* (California), holotype: GH
P. californicus var. *gracilis* I. M. Johnst.—*Brandegee 1658* (California), holotype: GH
P. foliosus I. M. Johnst.—*Stuardo s.n.* (Chile), holotype: IP, GH
P. glyptocarpus var. *modestus* I. M. Johnst.—*Heller 1322* (California), holotype: GH
P. gracilis var. *boliviana* I. M. Johnst.—*Asplund 3897* (Bolivia), holotype: US
P. gracilis var. *dimorpha* I. M. Johnst.—*Morong 1282* (Chile), holotype: GH
P. gracilis var. *platycarpa* I. M. Johnst.—*Pringle s.n.* (Arizona), holotype: GH
P. infectivus I. M. Johnst.—*Jared 28* (California), holotype: GH
P. macbridei I. M. Johnst.—*Macbride & Featherstone 599* (Peru), holotype: F
P. patagonicus I. M. Johnst.—*Moreno & Tonini 530* (Argentina), holotype: NY
P. penicillata var. *heterocarpa* I. M. Johnst.—*Munz & Keck 4804* (California), holotype: POM
P. setosa var. *aptera* I. M. Johnst.—*Abrams 3571* (California), holotype: GH
P. setosa var. *holoptera* I. M. Johnst.—*Johnston 6489* (California), holotype: POM
P. tener var. *fallax* I. M. Johnst.—*Austin s.n.* (California), holotype: GH
P. tener var. *subglaber* I. M. Johnst.—*Heller 1349a* (California), holotype: GH
P. torreyi var. *diffusus* I. M. Johnst.—*Heller 6986* (California), holotype: GH
P. torreyi var. *perplexans* I. M. Johnst.—*Purpus 5542* (California), holotype: GH

Polyachyrus (Asteraceae)
P. annuus I. M. Johnst.—*Johnston 3583* (Chile), holotype: GH
P. mollendoensis I. M. Johnst.—*Johnston 3538* (Peru), holotype: GH

P. nesites I. M. Johnst.—*Murphy 3467* (Peru), holotype: BKL
P. rigidus I. M. Johnst.—*Johnston 4700* (Chile), holotype: GH
P. virgatus I. M. Johnst.—*Johnston 5795* (Chile), holotype: GH

Polygala (Polygalaceae)
P. congestiflora I. M. Johnst.—*Curtis 419* (Angola), holotype: GH

Porlieria (Zygophyllaceae)
P. chilensis I. M. Johnst.—*Werdermann 919* (Chile), holotype: GH

Porophyllum (Asteraceae)
P. leptophyllum I. M. Johnst.—*Johnston 3373* (Baja California), holotype: CAS

Portulaca (Portulacaceae)
P. mundula I. M. Johnst.—*Johnston 7088* (Mexico), holotype: GH
P. peruviana I. M. Johnst.—*Pennell 13140* (Peru), holotype: GH
P. philippii I. M. Johnst.—*Johnston 5224* (Chile), holotype: GH

Protium (Burseraceae)
P. mcleodii I. M. Johnst.—*Johnston 557* (Panama), holotype: A

Prunus (Rosaceae)
P. guatemalensis I. M. Johnst.—*Skutch 504* (Guatemala), holotype: A
P. skutchii I. M. Johnst.—*Skutch 2077* (Guatemala), holotype: A

Pseudosmodingium (Anacardiaceae)
P. anomalum I. M. Johnst.—*Stanford, Retherford & Northcraft 73* (Mexico), holotype: GH

Psidium (Myrtaceae)
P. socorrense I. M. Johnst.—*Mason 1639* (Revillagigedo), holotype: CAS

Rhynchotropis (Fabaceae)
R. curtisiae I. M. Johnst.—*Curtis 814* (Kenya), holotype: GH

Rochelia (Boraginaceae)
R. laxa I. M. Johnst.—*Koelz 2946a* (India), holotype: GH

Roupala (Proteaceae)
R. brachybotrys I. M. Johnst.—*Hitchcock 21366* (Ecuador), holotype: GH
R. loxensis I. M. Johnst.—*Hitchcock 21414* (Ecuador), holotype: GH

Saccellium (Boraginaceae)
S. brasiliense I. M. Johnst.—*Malme 2759* (Brazil), holotype: B

Salix (Salicaceae)
S. taxifolia var. *limitanea* I. M. Johnst.—*Wright 669* (Texas), holotype: GH

Salpiglossis (Solanaceae)
S. albiflora I. M. Johnst.—*Weberbauer 7424a* (Peru), holotype: F
S. brachysiphon I. M. Johnst.—*Johnston 3625* (Chile), holotype: GH
S. cactorum I. M. Johnst.—*Johnston 5258* (Chile), holotype: GH
S. linearis I. M. Johnst.—*Pennell 13063* (Peru), holotype: GH

Sapium (Euphorbiaceae)
S. biloculare var. *amplum* I. M. Johnst.—*Johnston 3772* (Baja California), holotype: CAS

Sarcocca (Buxaceae)
S. guatemalensis I. M. Johnst.—*Skutch 288* (Guatemala), holotype: GH

Sartwellia (Asteraceae)
S. humilis I. M. Johnst.—*Johnston 7567* (Mexico), holotype: GH

Schinus (Anacardiaceae)
S. bumelioides I. M. Johnst.—*Venturi 9422* (Argentina), holotype: GH
S. gracilipes I. M. Johnst.—*Venturi 3887* (Argentina), holotype: GH
S. microphyllus I. M. Johnst.—*West 3747* (Peru), holotype: GH
S. piliferus I. M. Johnst.—*Venturi 9830* (Argentina), holotype: GH

Schizanthus (Solanaceae)
S. fallax I. M. Johnst.—*Johnston 3626* (Chile), holotype: GH

Scirpus (Cyperaceae)
S. bernardinus Munz & I. M. Johnst.—*Munz 6187* (California), holotype: POM

Securinega (Euphorbiaceae)
S. capensis I. M. Johnst.—*Brandegee s.n.* (Baja California), holotype: UC

Selenocarpus (Nyctaginaceae)
S. marshii I. M. Johnst.—*Marsh 1579* (Mexico), holotype: GH

Senecio (Asteraceae)
S. cremnophilus I. M. Johnst.—*Johnston 6107* (Argentina), holotype: GH
S. pelolepis I. M. Johnst.—*Johnston 6220* (Chile), holotype: GH
S. tinctolobus I. M. Johnst.—*Johnston 6072* (Chile), holotype: GH

Serjania (Sapindaceae)
S. nesites I. M. Johnst.—*Johnston 707* (Panama), holotype: A

Sida (Malvaceae)
S. nesogena I. M. Johnst.—*Mason 1613* (Revillagigedo), holotype: CAS

Sisyrinchium (Iridaceae)
S. eserrulatum I. M. Johnst.—*Bornmüller 236* in pt. (Brazil), holotype: GH
S. fiebrigii I. M. Johnst.—*Fiebrig 220* (Paraguay), holotype: GH
S. foliosum I. M. Johnst.—*Jörgensen 2299* (Argentina), holotype: GH
S. hoehnei I. M. Johnst.—*Hoehne S.B.S.P. no. 23057* (Brazil), holotype: GH
S. platense I. M. Johnst.—*Parodi 8171* (Argentina), holotype: GH
S. rosengurttii I. M. Johnst.—*Osten 22692* (Uruguay), holotype: GH
S. scariosum I. M. Johnst.—*Osten 22693* (Uruguay), holotype: GH
S. subnudum I. M. Johnst.—*Archer & Gehrt S.B.S.P. no. 36372* (Brazil), holotype: GH

Sloanea (Elaeocarpaceae)
S. ampla I. M. Johnst.—*Skutch 968* (Guatemala), holotype: GH
S. amplifrons I. M. Johnst.—*Linder 158* (Guyana), holotype: GH

Solanum (Solanaceae)
S. murphyi I. M. Johnst.—*Murphy 3219* (Peru), holotype: BKL
S. perattenuatum I. M. Johnst.—*Johnston 909* (Panama), holotype: A

Spergularia (Caryophyllaceae)
S. aberrans I. M. Johnst.—*Johnston 3631* (Chile), holotype: GH
S. collina I. M. Johnst.—*Johnston 3568* (Peru), holotype: GH
S. congestiflora I. M. Johnst.—*Johnston 3567* (Peru), holotype: GH
S. cremnophila I. M. Johnst.—*Johnston 5683* (Chile), holotype: GH

Spiraea (Rosaceae)
S. northcraftii I. M. Johnst.—*Stanford, Retherford & Northcraft 115* (Mexico), holotype: GH

Sphaeralcea (Malvaceae)
S. rosacea Munz & I. M. Johnst.—*Chittenden s.n.* (California), holotype: CAS

Spondias (Anacardiaceae)
S. purpurea var. *munita* I. M. Johnst.—*Johnston 573* (Panama), holotype: A

Sporobolus (Poaceae)
S. regis I. M. Johnst.—*Stewart 2653* (Mexico), holotype: GH

Stenophyllus (Cyperaceae)
S. nesioticus I. M. Johnst.—*Anthony 317* (Revillagigedo Islands), holotype: UC

Stephanomeria (Asteraceae)
S. blairi Munz & I. M. Johnst.—*Blair s.n.* (California), holotype: POM

Struthanthus (Loranthaceae)
S. haenkei var. *angustatus* I. M. Johnst.—*Johnston 4331* (Baja California), holotype: CAS
S. hunnewellii I. M. Johnst.—*Hunnewell 11854* (Mexico), holotype: GH

Suaeda (Chenopodiaceae)
S. duripes I. M. Johnst.—*Thurber 114* (Mexico), holotype: GH
S. jacoensis I. M. Johnst.—*Stewart & Johnston 1975* (Mexico), holotype: GH
S. nigrescens I. M. Johnst.—*Johnston 7650* (Mexico), holotype: GH
S. nigrescens var. *glabra* I. M. Johnst.—*Waterfall 3993a* (Texas), holotype: GH
S. suffrutescens var. *detonsa* I. M. Johnst.—*Johnston 7128* (Mexico), holotype: GH

Sympetaleia (Loasaceae)
S. tenella I. M. Johnst.—*Johnston 3901* (Baja California), holotype: CAS

Symphostemon (Lamiaceae)
S. articulatus I. M. Johnst.—*Curtis 309* (Angola), holotype: GH

Talinum (Portulacaceae)
T. whitei I. M. Johnst.—*White 2440* (Mexico), holotype: GH

Taraxacum (Asteraceae)
T. californicum Munz & I. M. Johnst.—*Pierce 101* (California), holotype: POM

Tetraclea (Lamiaceae)
T. subinclusa I. M. Johnst.—*Johnston 8504* (Mexico), holotype: GH

Tetragonia (Aizoaceae)
T. tenella I. M. Johnst.—*Johnston 5677* (Chile), holotype: GH
T. vestita I. M. Johnst.—*Johnston 3553* (Peru), holotype: GH

Tetrapteris (Malpighiaceae)
T. macrocarpa I. M. Johnst.—*Johnston 58* (Panama), holotype: A

Thamnosma (Rutaceae)
T. stanfordii I. M. Johnst.—*Stanford, Retherford & Northcraft 16* (Mexico), holotype: GH
T. trifoliata I. M. Johnst.—*Johnston 3892* (Baja California), holotype: CAS

Tidestromia (Amaranthaceae)
T. gemmata I. M. Johnst.—*Johnston 9363* (Mexico), holotype: GH
T. rhizomatosa I. M. Johnst.—*Johnston 8873* (Mexico), holotype: GH
T. suffruticosa var. *coahuilana* I. M. Johnst.—*Johnston & Mueller 1014* (Mexico), holotype: GH
T. tenella I. M. Johnst.—*Johnston 7822* (Mexico), holotype: GH

Tigridia (Iridaceae)
T. philippiana I. M. Johnst.—*Johnston 5757* (Chile), holotype: GH

Tournefortia (Boraginaceae)
T. gracilipes I. M. Johnst.—*Steyermark 61863* (Venezuela), holotype: F

T. lilloi I. M. Johnst.—*Lillo 7099* (Argentina), holotype: GH
T. luzonica I. M. Johnst.—*Adduru 237* (Philippines), holotype: A
T. luzonica var. *sublucens* I. M. Johnst.—*Ramos 44553* (Philippines), holotype: A
T. paniculata var. *austrina* I. M. Johnst.—*Lillo 3032M* (Argentina), holotype: GH
T. puberula var. *kirkii* I. M. Johnst.—*Kirk 3* (Comores), holotype: K
T. romeroi I. M. Johnst.—*Romero-Castañeda 3317* (Colombia), holotype: A

Trigonotis (Boraginaceae)
T. abata I. M. Johnst.—*Brass 9838* (Dutch New Guinea), holotype: GH
T. archboldii I. M. Johnst.—*Brass 4024* (British New Guinea), holotype: GH
T. ciliolata I. M. Johnst.—*Kanehira 13883* (Dutch New Guinea), holotype: A
T. compressa I. M. Johnst.—*Fang 1111* (China), holotype: GH
T. contortipes I. M. Johnst.—*Rock 10637* (China), holotype: GH
T. cupulifera I. M. Johnst.—*Tsiang 9931* (China), holotype: GH
T. floribunda I. M. Johnst.—*Sun 877* (China), holotype: GH
T. gracilipes I. M. Johnst.—*Rock 17867* (China), holotype: GH
T. laxa I. M. Johnst.—*Fang 1348* (China), holotype: GH
T. macrophylla var. *verrucosa* I. M. Johnst.—*Ching 5888* (China), holotype: NY
T. muriculata I. M. Johnst.—*Maire s.n.* (China), holotype: P-DEL
T. pleiomera I. M. Johnst.—*Clemens 5989* (New Guinea), holotype: GH
T. rockii I. M. Johnst.—*Rock 5256* (China), holotype: GH
T. rotundata I. M. Johnst.—*Forrest 20519* (China), holotype: E
T. tenera I. M. Johnst.—*Cheo 312* (China), holotype: GH

Triumfetta (Tiliaceae)
T. glabrata I. M. Johnst.—*Curtis 231* (Angola), holotype: GH
T. panamensis I. M. Johnst.—*Johnston 1112* (Panama), holotype: GH

Tropaeolum (Tropaeolaceae)
T. leptocera I. M. Johnst.—*Johnston 3597* (Chile), holotype: GH

Vauquelinia (Rosaceae)
V. heterodon I. M. Johnst.—*Johnston 7217* (Mexico), holotype: GH
V. retherfordii I. M. Johnst.—*Stanford, Retherford & Northcraft 87* (Mexico), holotype: GH

Verbena (Verbenaceae)
V. juniperina var. *grisea* I. M. Johnst.—*Hinkley 76* (Peru), holotype: GH

Verbesina (Asteraceae)
V. oligocephala I. M. Johnst.—*Johnston 3899* (Baja California), holotype: CAS

Viscainoa (Zygophyllaceae)
V. geniculata var. *pinnata* I. M. Johnst.—*Brandegee s.n.* (Baja California), holotype: UC

Wendtia (Geraniaceae)
W. miniata I. M. Johnst.—*Parodi 7821* (Argentina), holotype: GH

Zinnia (Asteraceae)
Z. oligantha I. M. Johnst.—*Johnston 7821* (Mexico), holotype: GH

APPENDIX 3. TYPES OF IVAN M. JOHNSTON BY COLLECTOR

COLLECTOR UNKNOWN
18927—*Onosma limitaneum* I. M. Johnst.
ABBOTT, R. Q.
211—*Brongniartia abbottiae* I. M. Johnst.
ABRAMS, L.
3139—*Cryptantha abramsii* I. M. Johnst.
3571—*Plagiobothrys setosa* var. *aptera* I. M. Johnst.
ADDURU, M.
237—*Tournefortia luzonica* I. M. Johnst.
ANDRÉ, K.
820—*Fuchsia andrei* I. M. Johnst.
ANTHONY, A. W.
s.n.—*Calliandra socorrensis* I. M. Johnst.
s.n.—*Cyperus duripes* I. M. Johnst.
317—*Stenophyllus nesioticus* I. M. Johnst.
ARCHER, W. A.
S.B.S.P. no. 36372—*Sisyrinchium subnudum* I. M. Johnst.
ARSENE, BROTHER
2511—*Lithospermum hypoleucum* I. M. Johnst.
ASPLUND, E.
3897—*Plagiobothrys gracilis* var. *bolivianum* I. M. Johnst.
6132—*Astragalus asplundii* I. M. Johnst.
6134—*Astragalus crymophilus* I. M. Johnst.
AUSTIN, R.
s.n.—*Plagiobothrys tener* var. *fallax* I. M. Johnst.
BAKER, M. S.
7629—*Cryptantha milobakeri* I. M. Johnst.
BALL, J. N.
s.n.—*Fagonia cretia* var. *canariensis* I. M. Johnst.
s.n.—*Heliotropium pilosum* var. *albatum* I. M. Johnst.
BANG, M.
674—*Fuchsia furfuracea* I. M. Johnst.
BARTLETT, H. H.
10242—*Amyris cordata* I. M. Johnst.
BENT, J. T.
21—*Echiochilon jugatum* I. M. Johnst.
BLAIR, E. G.
s.n.—*Stephanomeria blairi* Munz & I. M. Johnst.
BORNMÜLLER, A.
236 in pt.—*Sisyrinchium eserrulatum* I. M. Johnst.
BOTTERI, M.
81—*Persea podadenia* var. *glabriramea* I. M. Johnst.
BRANDEGEE, K.
s.n.—*Mentzelia tricuspis* var. *brevicornuta* I. M. Johnst.
BRANDEGEE, T. S.
s.n.—*Condalia parryi* var. *microphylla* I. M. Johnst.
s.n.—*Cryptantha brandegei* I. M. Johnst.
s.n.—*Ephedra peninsularis* I. M. Johnst.
s.n.—*Houstonia australis* I. M. Johnst.
s.n.—*Mentzelia hirsutissima* var. *nesiotes* I. M. Johnst.
s.n.—*Plagiobotyrys californicus* var. *fulvescens* I. M. Johnst.
s.n.—*Securinega capensis* I. M. Johnst.
s.n.—*Viscainoa geniculata* var. *pinnata* I. M. Johnst.
1658—*Plagiobothrys californicus* var. *gracilis* I. M. Johnst.
BRASS, L. J.
4024—*Trigonotis archboldii* I. M. Johnst.
4178—*Havilandia opaca* I. M. Johnst.
5681—*Havilandia robusta* I. M. Johnst.
9838—*Trigonotis abata* I. M. Johnst.
BRENES, A. M.
14402—*Misanteca costaricensis* I. M. Johnst.
BURCHELL, W. J.
8191—*Heliotropium elongatum* var. *burchellii* I. M. Johnst.
BURKART, A. E.
5385—*Astragalus flavocreatus* I. M. Johnst.
5407—*Astraglaus crypticus* I. M. Johnst.
7360—*Astragalus parodii* I. M. Johnst.
CERRATE, E.
565—*Cordia lippioides* I. M. Johnst.
1294—*Cordia munda* I. M. Johnst.
CHANEY, R. W.
195—*Craniospermum mongolicum* I. M. Johnst.

CHAPIN, J. P.
1104—*Atriplex chapinii* I. M. Johnst.
CHASE, A.
7461—*Cordia passa* I. M. Johnst.
CHEO, T. Y.
312—*Trigonotis tenera* I. M. Johnst.
CHING, R. C.
5888—*Trigonotis macrophylla* var. *verrucosa* I. M. Johnst.
CHITTENDEN, A. B.
s.n.—*Sphaeralcea rosacea* I. M. Johnst.
CHUN, N. K.
44626—*Ehretia hainanensis* I. M. Johnst.
CLAUSSEN, J. C.
s.n.—*Cordia axillaris* var. *gymnocarpa* I. M. Johnst.
CLEMENS, J.
5989—*Trigonotis pleiomera* I. M. Johnst.
CLOKEY, I. W.
6859—*Cryptantha clokeyi* I. M. Johnst.
COLLENETTE, C. N.
196—*Echiochilon collenettei* I. M. Johnst.
CONGDON, J. W.
C59—*Cryptantha mariposae* I. M. Johnst.
COOPER, G. P.
244—*Cordia protracta* I. M. Johnst.
CORRELL, D. S.
19872—*Cryptantha gypsites* I. M. Johnst.
CORY, V. L.
s.n.—*Cryptantha coryi* I. M. Johnst.
8491—*Aristolochia coryi* I. M. Johnst.
18613—*Cryptantha crassipes* I. M. Johnst.
CURTIS, A. G.
158—*Ochna angolensis* I. M. Johnst.
186—*Cryptosepalum curtisiorum* I. M. Johnst.
211—*Crotalaria bicolor* I. M. Johnst.
225—*Lactuca varianii* I. M. Johnst.
230—*Dolichos linearifolius* I. M. Johnst.
231—*Triumfetta glabrata* I. M. Johnst.
258—*Ekebergia pumila* I. M. Johnst.
283—*Lactuca tinctociliata* I. M. Johnst.
309—*Symphostemon articulatus* I. M. Johnst.
321—*Aeschynomene curtisiae* I. M. Johnst.
333—*Acrospira curtisiae* I. M. Johnst.
342—*Ocimum cuanzae* I. M. Johnst.
360—*Indigofera latipinna* I. M. Johnst.
419—*Polygala congestiflora* I. M. Johnst.
428—*Brachystegia russelliae* I. M. Johnst.
814—*Rhynchotropis curtisiae* I. M. Johnst.
DAUBENMIRE, R. F.
46289—*Dasynotus daubenmirei* I. M. Johnst.
DAVIDSON, A.
s.n.—*Galium angustifolium* var. *pinetorum* Munz & I. M. Johnst.
DHWOG, L.
161—*Onosma verruculosum* I. M. Johnst.
DUGES, A. A. D.
s.n.—*Condalia velutina* I. M. Johnst.
DUNLAP, V. C.
284—*Cordia lucidula* I. M. Johnst.
DUSEN, P. K. H.
17273—*Moritzia dusenii* I. M. Johnst.
DUTHIE, J. F.
8682—*Onosma barbigerum* I. M. Johnst.
EASTWOOD, A.
8593—*Hackelia longituba* I. M. Johnst.
ERLANSON, C. O.
369—*Casearia stjohnii* I. M. Johnst.
FALCONER, H.
s.n.—*Onosma hypoleucum* I. M. Johnst.
FANG, W. P.
1111—*Trigonotis compressa* I. M. Johnst.
1348—*Trigonotis laxa* I. M. Johnst.
FARRER, R.
3—*Onosma farrerii* I. M. Johnst.
FERREYRA, R.
2506—*Coldenia ferreyrae* I. M. Johnst.
6044—*Heliotropium ferreyrae* I. M. Johnst.
FIEBRIG, K.
220—*Sisyrinchium fiebrigii* I. M. Johnst.
2608—*Astragalus deminutivus* I. M. Johnst.
FISCHER, W.
20—*Cercidium australe* I. M. Johnst.
99—*Astragalus pauranthus* I. M. Johnst.
FORREST, G.
20519—*Trigonotis rotundata* I. M. Johnst.
26357—*Ehretia confinis* I. M. Johnst.
GANDER, F.
5328—*Cryptantha ganderi* I. M. Johnst.
GARDNER, G.
5126—*Cordia gardneri* I. M. Johnst.
GAY, C.
1921—*Cryptantha gayi* I. M. Johnst.

GENTRY, H. S.
10878—*Cordia lauta* I. M. Johnst.
GHIESBREGHT, A. B.
311—*Lasiarrhenum pinetorum* I. M. Johnst.
GLAZIOU, A. F. M.
1106—*Cordia latiloba* I. M. Johnst.
GLOVER, P. E.
1181—*Echiochilon adenophorum* I. M. Johnst.
GRAHAM, E. H.
7924—*Cryptantha grahamii* I. M. Johnst.
GRENINGER, M. O'C.
18—*Cristaria adenophora* I. M. Johnst.
GRIFFITH, W.
5946—*Onosma limitianeum* var. *majus* I. M. Johnst.
5949—*Onosma limitianeum* var. *parviflorum* I. M. Johnst.
GRINNELL, J.
s.n.—*Oenothera cardiophylla* var. *splendens* Munz & I. M. Johnst.
GUENTHER, E.
113—*Nolana guentheri* I. M. Johnst.
117—*Nolana pilosa* I. M. Johnst.
155—*Coldenia conspicua* I. M. Johnst.
1081—*Astragalus confinis* I. M. Johnst.
HALL, H. M.
2149—*Penstemon clevelandii* var. *connatus* Munz & I. M. Johnst.
5839—*Mentzelia involucrata* var. *megalantha* I. M. Johnst.
6925—*Cryptantha inaequata* I. M. Johnst.
7034—*Cryptantha racemosa* var. *lignosa* I. M. Johnst.
HARDING, J. E.
s.n.—*Bargemontia deflexa* I. M. Johnst.
HARRIS, W.
8732—*Cordia jamaicensis* I. M. Johnst.
HARRISON, G. J.
6507—*Pectocarya recurvata* I. M. Johnst.
HARTMAN, C. V.
1029—*Persea hartmanii* I. M. Johnst.
HARVARD, V.
26—*Gnaphalium texanum* I. M. Johnst.
HASSLER, E.
10992—*Heliotropium margaritense* I. M. Johnst.
HAUGHT, O. L.
11553—*Heliotropium piurense* I. M. Johnst.
HAYES, S
624—*Cordia cordiformis* I. M. Johnst.
HELLER, A. A.
1322—*Plagiobothrys glyptocarpus* var. *modestus* I. M. Johnst.
1349a—*Plagiobothrys tener* var. *subglaber* I. M. Johnst.
6986—*Plagiobothrys torreyi* var. *diffusus* I. M. Johnst.
8281—*Gilia inyoensis* I. M. Johnst.
HENRY, A.
956—*Heliotropium formosanum* I. M. Johnst.
HIERONYMUS, G. H. E. W.
482—*Astragalus famatinae* I. M. Johnst.
HINKLEY, F. E.
7—*Euphorbia hinkleyorum* I. M. Johnst.
13—*Monnina ramosa* I. M. Johnst.
16—*Mastigostyla cyrtophylla* I. M. Johnst.
17—*Oenothera verrucosa* I. M. Johnst.
25—*Gilia chachanensis* I. M. Johnst.
35—*Calandrinia adenosperma* I. M. Johnst.
37—*Malvastrum congestiflorum* I. M. Johnst.
41—*Pectocarya anomala* I. M. Johnst.
43—*Malvastrum hinkleyorum* I. M. Johnst.
43a—*Malvastrum arequipense* I. M. Johnst.
48—*Muhlenbeckia dumosa* I. M. Johnst.
76—*Verbena juniperina* var. *grisea* I. M. Johnst.
HINTON, G. H.
3631—*Heliotropium falax* var. *hintonii* I. M. Johnst.
7740—*Cordia hintonii* I. M. Johnst.
8156—*Cordia coyucana* I. M. Johnst.
8514—*Heliotropium cremnogenum* I. M. Johnst.
10866—*Bourreria hintonii* I. M. Johnst.
13834—*Bourreria superba* I. M. Johnst.
14826—*Cordia gracilipes* I. M. Johnst.
15066—*Cordia subvelutina* I. M. Johnst.
15069—*Heliotropium michoacanum* I. M. Johnst.
15098—*Bourreria longiflora* I. M. Johnst.

HITCHCOCK, C. L.
428a—*Amaranthus arenicola* I. M. Johnst.
17348—*Patima formicaria* I. M. Johnst.
17563—*Cordia fallax* I. M. Johnst.
19932—*Heliotropium rufipilum* var. *anadenum* I. M. Johnst.
21311—*Euplassa occidentalis* I. M. Johnst.
21350—*Oenothera fusiformis* Munz & I. M. Johnst.
21366—*Roupala brachybotrys* I. M. Johnst.
21414—*Roupala loxensis* I. M. Johnst.
21440—*Fuchsia hypoleuca* I. M. Johnst.
21603—*Fuchsia htchcockii* I. M. Johnst.
21667—*Fuchsia apiculata* I. M. Johnst.
21750—*Fuchsia glaberrima* I. M. Johnst.
22403—*Oenothera arequipensis* I. M. Johnst.
HOEHNE. F. C.
S.B.S.P. no. 23057—*Sisyrinchium hoehnei* I. M. Johnst.
HOFFMANN, R.
78—*Cryptantha hoffmannii* I. M. Johnst.
HOHENACKER, E.
82—*Heliotropium cornutum* I. M. Johnst.
HOLTON, I. F.
892—*Fuchsia perbrevis* I. M. Johnst.
HOOVER, R. F.
558—*Cryptantha hooveri* I. M. Johnst.
2169—*Cryptantha spithamaea* I. M. Johnst.
4193—*Cryptantha crymophila* I. M. Johnst.
HUBBY
21— *Cryptantha decipiens* var. *corollata* I. M. Johnst.
HUNNEWELL, F. W.
11854—*Struthanthus hunnewellii* I. M. Johnst.
JAEGER, E. C.
251—*Eriogonum nodusum* var. *jaegeri* Munz & I. M. Johnst.
JAFFUEL, F.
228—*Adesmia pirionii* I. M. Johnst.
1120—*Heliotropium eremogenum* I. M. Johnst.
2524—*Heliotropium jaffuellii* I. M. Johnst.
JARED, L.
28— *Plagiobothrys infectivus* I. M. Johnst.
JOHNSTON, H. H.
22— *Onosma khyberianum* I. M. Johnst.
JOHNSTON, I. M. (SEE ALSO I. M. JOHNSTON AND C. H. MUELLER)
58—*Tetrapteris macrocarpa* I. M. Johnst.
230—*Coccoloba waitii* I. M. Johnst.
389—*Ficus bullenei* I. M. Johnst.
539—*Bauhinia thompsonii* I. M. Johnst.
557—*Protium mcleodii* I. M. Johnst.
567—*Drymaria lyropetala* var. *coahuilana* I. M. Johnst.
573—*Spondias purpurea* var. *munita* I. M. Johnst.
707—*Serjania nesites* I. M. Johnst.
721—*Ficus campbellii* I. M. Johnst.
909—*Solanum perattenuatum* I. M. Johnst.
967—*Philodendron erlansonii* I. M. Johnst.
1012—*Ficus leavensii* var. *thinophila* I. M. Johnst.
1030—*Philodendron harlowii* I. M. Johnst.
1112—*Triumfetta panamensis* I. M. Johnst.
1116—*Leiphaimos stenoloba* I. M. Johnst.
1125—*Ficus leavensii* I. M. Johnst.
1278—*Hosackia argophylla* var. *decora* I. M. Johnst.
1627—*Lupinus elatus* I. M. Johnst.
1692—*Eriogonum umbellatum* var. *minus* I. M. Johnst.
2067—*Galium hallii* Munz & I. M. Johnst.
2133—*Monardella saxicola* I. M. Johnst.
2137—*Corethroegyne filaginifolia* var. *pinetorum* I. M. Johnst.
2139—*Morardella lanceolata* var. *glandulifera* I. M. Johnst.
2833—*Asclepias eriocarpa* var. *microcarpa* Munz & I. M. Johnst.
3028—*Condalia globosa* I. M. Johnst.
3043—*Agave sleviniana* I. M. Johnst.
3085—*Agave oweni* I. M. Johnst.
3123—*Agave chrysoglossa* I. M. Johnst.
3134—*Hofmeisteria pleuriseta* var. *pauciseta* I. M. Johnst.
3195—*Carlowrightia californica* var. *pallida* I. M. Johnst.
3201—*Condalia globosa* var. *pubescens* I. M. Johnst.
3315—*Eriogonum galioides* I. M. Johnst.
3373—*Porophyllum leptophyllum* I. M. Johnst.

3413—*Penstemon clevelandii* var. *angelicus* I. M. Johnst.
3418—*Hofmeisteria filifolia* I. M. Johnst.
3496—*Colubrina californica* I. M. Johnst.
3504—*Maurandya flaviflora* I. M. Johnst.
3505—*Cryptantha fastigiata* I. M. Johnst.
3516—*Palaua inconspicua* I. M. Johnst.
3529—*Aplopappus arenaris* var. *incisifolius* I. M. Johnst.
3532—*Fagonia densa* I. M. Johnst.
3538—*Polyachyrus mollendoensis* I. M. Johnst.
3549—*Linum parvum* I. M. Johnst.
3553—*Tetragonia vestita* I. M. Johnst.
3567—*Spergularia congestifolia* I. M. Johnst.
3568—*Spergularia collina* I. M. Johnst.
3583—*Polyachyrus annuus* I. M. Johnst.
3589—*Calandrinia chrysantha* I. M. Johnst.
3591—*Calandrinia cephalophora* I. M. Johnst.
3597—*Tropaeolum leptoceras* I. M. Johnst.
3599—*Mathewsia collina* I. M. Johnst.
3603—*Bargemontia tocopillensis* I. M. Johnst.
3604—*Nolana jaffuelii* I. M. Johnst.
3608—*Pasithea caerula* var. *grandiflora* I. M. Johnst.
3617—*Coldenia cuspidata* I. M. Johnst.
3625—*Salpiglossis brachysiphon* I. M. Johnst.
3626—*Schizanthus fallax* I. M. Johnst.
3627—*Aplopappus arenarius* var. *rossii* I. M. Johnst.
3631—*Spergularia aberrans* I. M. Johnst.
3644—*Peucephyllum schottii* var. *latisetum* I. M. Johnst.
3705—*Ephedra wraithiana* I. M. Johnst.
3731—*Coldenia canescens* var. *subnuda* I. M. Johnst.
3742—*Jacquemontia eastwoodiana* I. M. Johnst.
3772—*Sapium biloculare* var. *amplum* I. M. Johnst.
3807—*Macrosiphonia hesperia* I. M. Johnst.
3852—*Hyptis emoryi* var. *amplifolium* I. M. Johnst.
3877—*Cercidium molle* I. M. Johnst.
3881—*Acacia brandegeana* I. M. Johnst.
3892—*Thamnosma trifoliata* I. M. Johnst.
3899—*Verbesina oligocephala* I. M. Johnst.
3901—*Sympetaleia tenella* I. M. Johnst.
3927—*Houstonia gracilenta* I. M. Johnst.
3947—*Cryptantha grayi* var. *nesiotica* I. M. Johnst.
4026—*Maximowiczia sonorae* var. *peninsularis* I. M. Johnst.
4036—*Indigofera argentata* I. M. Johnst.
4136—*Euphorbia chamberlini* I. M. Johnst.
4145—*Cyperus dioicus* I. M. Johnst.
4203—*Physalis crassifolia* var. *infundibularis* I. M. Johnst.
4221—*Cryptantha angelica* I. M. Johnst.
4272—*Bargemontia glauca* I. M. Johnst.
4304—*Euphorbia ceroderma* I. M. Johnst.
4331—*Struthanthus haenkei* var. *angustatus* I. M. Johnst.
4377—*Asclepias leptopus* I. M. Johnst.
4700—*Polyachrus rigidus* I. M. Johnst.
4744—*Cristaria glomerata* I. M. Johnst.
4770—*Bargemontia glauca* I. M. Johnst.
4927—*Cardamine cremnophila* I. M. Johnst.
5121—*Cryptantha taltalensis* I. M. Johnst.
5224—*Portulaca philippii* I. M. Johnst.
5233—*Heliotropium philippianum* I. M. Johnst.
5239—*Atriplex clivicola* I. M. Johnst.
5258—*Salpiglossis cactorum* I. M. Johnst.
5267—*Cristaria intonsa* I. M. Johnst.
5270—*Cristaria leucantha* I. M. Johnst.
5272—*Nolana stenophylla* I. M. Johnst.
5284—*Calandrinia taltalensis* I. M. Johnst.
5317—*Calandrinia lamprosperma* I. M. Johnst.
5329—*Baccharis taltalensis* I. M. Johnst.
5352—*Adesmia diaziana* I. M. Johnst.
5353—*Astragalus melanogonotus* I. M. Johnst.
5359—*Cristeria thinophila* I. M. Johnst.
5365—*Cristaria diaziana* I. M. Johnst.
5372—*Bipinnula taltalensis* I. M. Johnst.
5379—*Cristaria taltalensis* I. M. Johnst.

5384—*Nolana diffusa* I. M. Johnst.
5394—*Dioscorea cylindrostachya* I. M. Johnst.
5428—*Adesmia gracillima* I. M. Johnst.
5430—*Lathyrus lomanus* I. M. Johnst.
5467—*Argylia sitiens* I. M. Johnst.
5470—*Calandrinia sitiens* I. M. Johnst.
5490—*Adesmia viscidissima* I. M. Johnst.
5502—*Cristeria paposana* I. M. Johnst.
5550—*Bowlesia paposana* I. M. Johnst.
5586—*Astragalus paposanus* I. M. Johnst.
5590—*Nolana ramosissima* I. M. Johnst.
5677—*Tetragonia tenella* I. M. Johnst.
5683—*Spergularia cremnophylla* I. M. Johnst.
5686—*Cristaria fuentesiana* I. M. Johnst.
5689—*Domeykoa perennis* I. M. Johnst.
5707—*Linum cremnophilum* I. M. Johnst.
5757—*Tigridia philippianum* I. M. Johnst.
5766—*Atriplex clivicola* var. *lopholepis* I. M. Johnst.
5779—*Chiropetalum cremnophilum* I. M. Johnst.
5795—*Polyachyrus virgatus* I. M. Johnst.
5814—*Cryptantha argentea* I. M. Johnst.
5819—*Cristaria formulosa* I. M. Johnst.
5897—*Pachylaena rosea* I. M. Johnst.
6033—*Astragalus valerianensis* I. M. Johnst.
6058—*Hexaptera macrocarpa* I. M. Johnst.
6067—*Euphrasia adenonota* I. M. Johnst.
6072—*Senecio tinctolobus* I. M. Johnst.
6107—*Senecio cremnophilus* I. M. Johnst.
6117—*Adesmia glanduligera* I. M. Johnst.
6120—*Lycium penduliflorum* I. M. Johnst.
6128—*Astragalus pulviniformis* I. M. Johnst.
6148—*Atriplex transandina* I. M. Johnst.
6168—*Atriplex hypsophila* I. M. Johnst.
6220—*Senecio pelolepis* I. M. Johnst.
6307—*Bargemontia clivicola* I. M. Johnst.
6489—*Plagiobothrys setosa* var. *holoptera* I. M. Johnst.
7015—*Condalia viridis* I. M. Johnst.
7088—*Portulaca mundula* I. M. Johnst.
7126—*Nama serphlliodes* var. *confertum* I. M. Johnst.
7128—*Suaeda suffrutescens* var. *detonsa* I. M. Johnst.
7217—*Vauquelinia heterodon* I. M. Johnst.
7567—*Sartwellia flaveriae* I. M. Johnst.
7569—*Leucophyllum pruinosum* I. M. Johnst.
7583—*Nerisyrenia gracilis* I. M. Johnst.
7593—*Condalia fasciculata* I. M. Johnst.
7594—*Drymaria lyropetala* I. M. Johnst.
7605—*Lycium modestum* I. M. Johnst.
7611—*Lycium leiospermum* I. M. Johnst.
7614—*Frankenia gypsophila* I. M. Johnst.
7617—*Atriplex abata* I. M. Johnst.
7633—*Nama hispidum* var. *gypsicola* I. M. Johnst.
7650—*Suaeda nigrescens* I. M. Johnst.
7717—*Mentzelia pachyrhiza* I. M. Johnst.
7815—*Fouquieria shrevei* I. M. Johnst.
7821—*Zinnia oligantha* I. M. Johnst.
7822—*Tidestromia tenella* I. M. Johnst.
7823—*Drymaria elata* I. M. Johnst.
7824—*Pectis incisifolia* I. M. Johnst.
7986—*Aristolochia wrightii* var. *texana* I. M. Johnst.
8040—*Phacelia petiolata* I. M. Johnst.
8428—*Dasylirion heteracanthum* I. M. Johnst.
8486—*Phacelia pallida* I. M. Johnst.
8489—*Drymaria subumbellata* I. M. Johnst.
8504—*Tetraclea subinclusa* I. M. Johnst.
8529—*Milla bryani* I. M. Johnst.
8873—*Tidestromia rhizomatosa* I. M. Johnst.
8886—*Amaranthus warnockii* I. M. Johnst.
8877—*Atriplex prosopidum* I. M. Johnst.
9010—*Abies coahuilensis* I. M. Johnst.
9363—*Tidestromia gemmata* I. M. Johnst.

JOHNSTON, I. M. AND C. H. MUELLER

10—*Anulocaulis reflexus* I. M. Johnst.
160—*Leucophyllum candidum* I. M. Johnst.
341—*Leucophyllum griseum* I. M. Johnst.
547—*Eriogonum hemipterum* var. *griseum* I. M. Johnst.
731—*Petrogenia repens* I. M. Johnst.
777—*Atriplex stewartii* I. M. Johnst.
814—*Nama stewartii* I. M. Johnst.
912—*Fendlera rigida* I. M. Johnst.
944—*Gnestidium dumosum* I. M. Johnst.

1014—*Tidestromia suffruticosa* var. *coahuilana* I. M. Johnst.
1081—*Atriplex reptans* I. M. Johnst.
1258—*Gilia stewartii* I. M. Johnst.
1266—*Phacelia gypsogenia* I. M. Johnst.
1326—*Nolina micrantha* I. M. Johnst.
1359—*Perityle castillonii* I. M. Johnst.

JÖRGENSEN, P.
1126—*Astragalus joergensenii* I. M. Johnst.
1143—*Margyricarpus paucijugatus* I. M. Johnst.
1163—*Caiophora jorgensenii* I. M. Johnst.
1337—*Astragalus burkartii* I. M. Johnst.
1388—*Malvastrum catamarcense* I. M. Johnst.
1389—*Malvastrum jorgensenii* I. M. Johnst.
1868—*Heliotropium catamarcense* I. M. Johnst.
2243—*Heliotropium curassavicum* var. *argentinum* I. M. Johnst.
2299—*Sisyrinchium foliosum* I. M. Johnst.
3242—*Heliotropium tiaridioides* var. *schizocarpum* I. M. Johnst.

KANEHIRA, R.
354—*Ochroma peruviana* I. M. Johnst.
13883—*Trigonotis ciliolata* I. M. Johnst.

KARWINSKY, W. F. B. VON
646—*Heliotropium karwinskyi* I. M. Johnst.

KILLIP, E. P.
16695—*Fuchsia killipii* I. M. Johnst.
30008—*Cordia naidophila* I. M. Johnst.
34349—*Cordia hebeclada* I. M. Johnst.

KIRK, J.
3—*Tournefortia puberula* var. *kirkii* I. M. Johnst.

KLUG, G.
2262—*Cordia ripicola* I. M. Johnst.
2756—*Cordia laevior* I. M. Johnst.

KOELZ, W. N.
2946a—*Rochelia laxa* I. M. Johnst.

KRUKOFF, B. A.
5497—*Cordia lomatoloba* I. M. Johnst.
6048—*Cordia decipiens* I. M. Johnst.

LEONARD, E. C.
13851—*Heliotropium genovefae* I. M. Johnst.

LILLO, M.
3032M—*Tournefortia paniculata* var. *austrina* I. M. Johnst.
7099—*Tournefortia lilloi* I. M. Johnst.

LINDER, D. H.
158—*Sloanea amplifrons* I. M. Johnst.

LOBB, W.
s.n.—*Heliotropium lobbii* I. M. Johnst.

LOOSER, G.
739—*Erodium chilense* I. M. Johnst.
1132—*Astragalus looserii* I. M. Johnst.

LÓPEZ, F.
s.n.—*Heliotropium huascoense* I. M. Johnst.

LUDLOW, F.
5619—*Eritrichium laxum* I. M. Johnst.
12598—*Maharanga bhutanica* I. M. Johnst.

LUNDELL, C. L.
12296—*Lasiarrhenum lundellii* I. M. Johnst.
14721—*Heliotropium texanum* I. M. Johnst.

MACBRIDE, J. F.
270—*Oenothera featherstonei* Munz & I. M. Johnst.
495—*Heliotropium adenogynum* I. M. Johnst.
599—*Plagiobothrys macbridei* I. M. Johnst.
674—*Cryptantha peruviana* I. M. Johnst.
797—*Cryptantha clevelandi* var. *florosa* I. M. Johnst.
1185—*Lithospermum macbridei* I. M. Johnst.
3715—*Fuchsia velutina* I. M. Johnst.
4011—*Acalypha fulva* I. M. Johnst.
4290—*Fuchsia polyanthella* I. M. Johnst.
4541—*Fuchsia abrupta* I. M. Johnst.
5093—*Acalypha macbridei* I. M. Johnst.
5616—*Fuchsia macrophylla* I. M. Johnst.
5702—*Mabea macbridei* I. M. Johnst.
5861—*Cryptantha latifolia* I. M. Johnst.
5869—*Cryptantha macbridei* I. M. Johnst.
5950—*Oenothera laciniata* var. *limensis* I. M. Johnst.

MAGUIRE, B.
4466—*Cryptantha pterocarya* var. *stenoloba* I. M. Johnst.
14385 *Eritrichium elongatum* var. *paysonii* I. M. Johnst.

MAIRE, E. E.
s.n.—*Trigonotis muriculata* I. M. Johnst.
MALME, G. O. A.
2759—*Saccellium brasiliense* I. M. Johnst.
MANDON, G.
387—*Heliotropium mandonii* I. M. Johnst.
MARSH JR., E. G.
746—*Muhlengergia marshii* I. M. Johnst.
1579—*Selinocarpus marshii* I. M. Johnst.
2120—*Phacelia teucriifolia* I. M. Johnst.
MARTENS, P.
s.n.—*Nolana intonsa* I. M. Johnst.
MASON, H. L.
1553—*Ipomoea halierca* I. M. Johnst.
1596—*Nicotiana nesophila* I. M. Johnst.
1609—*Bursera nesopola* I. M. Johnst.
1613—*Sida nesogena* I. M. Johnst.
1614—*Hypericum eastwoodianum* I. M. Johnst.
1627—*Meliosma nesites* I. M. Johnst.
1637—*Croton masonii* I. M. Johnst.
1639—*Psidium socorrense* I. M. Johnst.
MAURICIO, H.
7946—*Lithodora moroccana* I. M. Johnst.
MCVAUGH, R.
7725—*Lithospermum parksii* I. M. Johnst.
8040—*Cryptantha crassisepala* var. *elachantha* I. M. Johnst.
10517—*Lithospermum berlandieri* I. M. Johnst.
MELION, M.
137—*Cordia fulva* I. M. Johnst.
METCALFE, O. B.
742—*Gnaphalium viridulum* I. M. Johnst.
MEXIA, Y.
1080—*Cordia inornata* I. M. Johnst.
5617—*Cordia braceliniae* I. M. Johnst.
6459—*Cordia mexiana* I. M. Johnst.
MITCHELL, E. R.
66—*Ardisia mitchellae* I. M. Johnst.
74—*Hippocratea mitchellae* I. M. Johnst.
MONTERO, G.
1161—*Astragalus monteroi* I. M. Johnst.
MOORE, H. E.
3289—*Bernardia obovata* I. M. Johnst.
MORENO, J. F. P.
530—*Plagiobothrys patagonicus* I. M. Johnst.
MORONG, T.
1282—*Plagiobothrys gracilis* var. *dimorpha* I. M. Johnst.
MUELLER, C. H.
598—*Lithospermum parksii* var. *rugulosum* I. M. Johnst.
739—*Lithospermum muelleri* I. M. Johnst.
741—*Macromeria bargigera* I. M. Johnst.
754—*Macromeria leontis* I. M. Johnst.
803—*Mahonia muelleri* I. M. Johnst.
830—*Macromeria notata* I. M. Johnst.
992—*Omphalodes erecta* I. M. Johnst.
1299—*Leucophyllum zygophyllum* I. M. Johnst.
2255—*Hackelia leonotis* I. M. Johnst.
2259—*Onosmodium dodrantale* I. M. Johnst.
2378—*Lithospermum confine* I. M. Johnst.
2380—*Lithospermum indecorum* I. M. Johnst.
MUNZ, P. A.
4271—*Penstemon munzii* I. M. Johnst.
4505—*Eriogonum fasciculatum* var. *flavoviride* Munz & I. M. Johnst.
4804—*Plagiobothrys penicillata* var. *heterocarpa* I. M. Johnst.
4930—*Ammoselinium occidentale* Munz & I. M. Johnst.
5093—*Downingia immaculata* Munz & I. M. Johnst.
6078—*Galium gabrielense* Munz & I. M. Johnst.
6187—*Scirpus bernardinus* Munz & I. M. Johnst.
6208—*Eriogonum kennedyi* var. *austromontanum* Munz & I. M. Johnst.
6684—*Malvastrum clementinum* Munz & I. M. Johnst.
6999—*Penstemon piersoni* Munz & I. M. Johnst.
7056—*Phacelia keckii* Munz & I. M. Johnst.
8468—*Alnus rhombifolia* var. *bernardina* Munz & I. M. Johnst.
11846—*Pectocarya linearis* var. *ferocula* I. M. Johnst.
MURPHY, R. C.
3219—*Solanum murphyi* I. M. Johnst.

3467—*Polyachyrus nesites* I. M. Johnst.
3472—*Periloba insularis* I. M. Johnst.

NATIVE COLLECTOR
236—*Cordia laevifrons* I. M. Johnst.

NELSON, E. W.
6924—*Cordia nelsonii* I. M. Johnst.

NORTON, E. F.
312—*Onosma wadellii* var. *brachylinum* I. M. Johnst.

OSTEN, C.
5129—*Cryptantha mendocina* I. M. Johnst.
22692—*Sisyrinchium rosengurttii* I. M. Johnst.
22693—*Sisyrinchium scariosum* I. M. Johnst.

PALMER, E.
187—*Aristolochia lassa* I. M. Johnst.
206—*Haploesthes greggii* var. *multiflora* I. M. Johnst.
551—*Cryptantha maritima* var. *pilosa* I. M. Johnst.
573—*Cordia globulifera* I. M. Johnst.
777—*Phorodendron flavum* I. M. Johnst.
799—*Gilia platyloba* I. M. Johnst.
898—*Cordia colimensis* I. M. Johnst.
2043—*Amaranthus retroflexus* var. *salicifolius* I. M. Johnst.

PARISH, W. F.
162—*Harpagonella palmeri* var. *arizonica* I. M. Johnst.

PARODI, L. R.
6664—*Alchemilla parodii* I. M. Johnst.
7514—*Geranium parodii* I. M. Johnst.
7805—*Monnina argentina* I. M. Johnst.
7821—*Wendtia miniata* I. M. Johnst.
8170a—*Hymenoxys parodii* I. M. Johnst.
8171—*Sisyrinchium platense* I. M. Johnst.
9052—*Hysterionica caurina* I. M. Johnst.

PEARCE, R.
s.n.—*Heliotropium oxylobum* I. M. Johnst.
s.n.—*Nolana pearcei* I. M. Johnst.

PECK, M. E.
826—*Misanteca peckii* I. M. Johnst.

PENNELL
10313—*Fuchsia atrorubra* I. M. Johnst.
13063—*Salpiglossis linearis* I. M. Johnst.
13066—*Cacabus flavus* I. M. Johnst.
13140—*Portulaca peruviana* I. M. Johnst.
13973—*Fuchsia chloroloba* I. M. Johnst.
14280—*Nolana thinophila* I. M. Johnst.

PHILIPPI, F.
s.n.—*Cryptantha calycotricha* I. M. Johnst.

PIERCE, W. M.
101—*Taraxacum californicum* Munz & I. M. Johnst.

PIERSON, F. W.
774—*Malvastrum gabrielense* Munz & I. M. Johnst.

PIERSON, M.
2151—*Claytonia lanceolata* var. *piersoni* Munz & I. M. Johnst.

PITTIER, H.
9252—*Fuchsia boliviana* var. *luxurians* I. M. Johnst.

POPE, CAPT.
s.n.—*Cryptantha crassisepala* var. *typica* I. M. Johnst.

PRINGLE, C. G.
s.n.—*Cryptantha nevadensis* var. *rigida* I. M. Johnst.
s.n.—*Plagiobothrys gracilis* var. *platycarpa* I. M. Johnst.
388—*Aristida dissita* I. M. Johnst.
417—*Muhlenbergia mundula* I. M. Johnst.
2537—*Cercidium macrum* I. M. Johnst.
3723—*Gilbertia eurycarpa* I. M. Johnst.
4236—*Oreomyrrhis tolucana* I. M. Johnst.
5081—*Acleisanthes nana* I. M. Johnst.
8546—*Oreomyrrhis orizabae* I. M. Johnst.
8829—*Phoebe longipes* I. M. Johnst.
12123—*Lithospermum pringlei* I. M. Johnst.

PURDIE, W.
s.n.—*Heliotropium purdiei* I. M. Johnst.

PURPUS, C. A.
325—*Euphorbia peninsularis* I. M. Johnst.
1402—*Heliotropium sessei* I. M. Johnst.
2606—*Antiphytum caespitosum* I. M. Johnst.
5542—*Plagiobothrys torreyi* var. *perplexans* I. M. Johnst.
6437—*Euphorbia podagrica* I. M. Johnst.

RAMOS, M.
44553—*Tournefortia luzonica* var. *sublucens* I. M. Johnst.

REID, J. R.
s.n.—*Onosma egregium* I. M. Johnst.

RIPLEY, H. D. D.
8748—*Cryptantha barnebyi* I. M. Johnst.
ROCK, J. F.
5256—*Trigonotis rockii* I. M. Johnst.
10439—*Microula hirsuta* I. M. Johnst.
10637—*Trigonotis contortipes* I. M. Johnst.
14511—*Microula rockii* I. M. Johnst.
17867—*Trigontis gracilipes* I. M. Johnst.
ROJAS IN PL. HASSLER PARAG.
2477—*Heliotropium pallescens* I. M. Johnst.
ROLLINS, R. C.
1715—*Cryptantha rollinsii* I. M. Johnst.
ROMERO-CASTAÑEDA, R.
3317—*Tournefortia romeroi* I. M. Johnst.
ROSE, J. N.
2360—*Nomosa rosei* I. M. Johnst.
7932—*Hackelia stricta* I. M. Johnst.
9800—*Heliotropium queretaroanum* I. M. Johnst.
12586—*Cercidium sonorae* Rose & I. M. Johnst.
19416—*Bargemontia inconspicua* I. M. Johnst.
22479—*Fuchsia spectabilis* var. *pubens* I. M. Johnst.
ROWELL JR., C. M.
3545—*Bourreria rowellii* I. M. Johnst.
RUIZ LEAL, R. A.
3343—*Astragalus ruiz-lealii* I. M. Johnst.
18837—*Heliotropium ruiz-lealii* I. M. Johnst.
18840—*Heliotropium curassavicum* var. *fruticulosum* I. M. Johnst.
ST.-HILAIRE, A. F. C. P.
B-1478—*Cordia setigera* I. M. Johnst.
ST. JOHN, H.
17486—*Heliotropium anomalum* var. *mediale* I. M. Johnst.
SAN ROMÁN
s.n.—*Cryptantha romanii* I. M. Johnst.
SCHAFFNER, W.
728—*Lithospermum obtusifolium* I. M. Johnst.
SCHIPP, W. A.
1040—*Cordia stellifera* I. M. Johnst.
SCHREITER, R.
3603—*Heliotropium schreiteri* I. M. Johnst.
SCHWEINFURTH, C. A.
2108—*Echiochilon nubicum* I. M. Johnst.
SCOLNIK, R.
1010—*Coldenia simulans* I. M. Johnst.
SELER, G. E.
847—*Lithospermum seleri* I. M. Johnst.
2893—*Lithospermum mediale* I. M. Johnst.
SELLO, F.
1564—*Cordia axillaris* I. M. Johnst.
SHARSMITH, C. W.
3354—*Hackelia sharsmithii* I. M. Johnst.
SHEPARD, R. S.
114—*Lithospermum shepardae* I. M. Johnst.
123—*Malvastrum shepardae* I. M. Johnst.
SHREVE, F.
6257—*Coldenia canescens* var. *pulchella* I. M. Johnst.
9101—*Leucophyllum virescens* I. M. Johnst.
9104—*Cnidoscolus shrevei* I. M. Johnst.
SKUTCH, A. F.
282—*Cordia costaricensis* I. M. Johnst.
288—*Sarcocca guatemalensis* I. M. Johnst.
298—*Cordia prunifolia* I. M. Johnst.
504—*Prunus guatemalensis* I. M. Johnst.
843—*Buddleia hypsophila* I. M. Johnst.
968—*Sloanea ampla* I. M. Johnst.
981—*Acalypha skutchii* I. M. Johnst.
1060—*Ilex gracilipes* I. M. Johnst.
1103—*Hackelia skutchii* I. M. Johnst.
1263—*Oreomyrrhis daucifolia* I. M. Johnst.
1320—*Ilex ampla* I. M. Johnst.
1426—*Cordia skutchii* I. M. Johnst.
1456—*Cobaea skutchii* I. M. Johnst.
1663—*Ilex quercetorum* I. M. Johnst.
1922—*Heliotropium fallax* I. M. Johnst.
2027—*Dussia grandifrons* I. M. Johnst.
2077—*Prunus skutchii* I. M. Johnst.
SMITH, H. H.
1778—*Gilbertia amplifolia* I. M. Johnst.
SMITH, L. C.
393—*Antiphytum nudicaules* I. M. Johnst.
608—*Cordia stenoclada* I. M. Johnst.
SPEGAZZINI HERB.
no. 2111—*Astragalus punae* I. M. Johnst.
SPENCER, M. F.
69—*Gnaphalium albidum* I. M. Johnst.
SPRUCE, R
5771—*Astragalus sprucei* I. M. Johnst.

STANFORD, L. R.
16—*Thamnosma stanfordii* I. M. Johnst.
73—*Pseudosmodingium anomalum* I. M. Johnst.
87—*Vauquelinia retherfordii* I. M. Johnst.
100—*Lithospermum jumulcense* I. M. Johnst.
115—*Spiraea northcraftii* I. M. Johnst.
744—*Heliotropium confertifolium* var. *coldenioides* I. M. Johnst.
STEHLE, H
2678—*Cordia nesophila* I. M. Johnst.
STEINBACH, J.
5038—*Fuchsia steinbachii* I. M. Johnst.
STEVENS, H.
483—*Onosma mertensioides* I. M. Johnst.
STEWARD, A. N.
357—*Ehretia dicksonii* var. *tilioides* I. M. Johnst.
STEWART, R. M.
823—*Dasylirion stewartii* I. M. Johnst.
957—*Dasylirion stewartii* var. *glaucum* I. M. Johnst.
1044—*Gilia calothyrsa* I. M. Johnst.
1943—*Cyphomeris gypsophiloides* var. *stewartii* I. M. Johnst.
1975—*Suaeda jacoensis* I. M. Johnst.
2241—*Phacelia infundibuliformis* var. *phanerandra* I. M. Johnst.
2653—*Sporobolus regis* I. M. Johnst.
2742—*Maurandya coccinea* I. M. Johnst.
STEWART, R. R.
10053—*Onosma kashmirica* I. M. Johnst.
19526—*Hackelia stewartii* I. M. Johnst.
STEYERMARK, J. A.
35898—*Macromeria guatemalensis* I. M. Johnst.
59003—*Cordia roraimae* I. M. Johnst.
61863—*Tournefortia gracilipes* I. M. Johnst.
STUARDO
s.n.—*Plagiobothrys foliosus* I. M. Johnst.
SUN, S. C.
877—*Trigonotis floribunda* I. M. Johnst.
TATE, G. H. H.
259—*Cordia hirta* I. M. Johnst.
TESSMAN, G.
5457—*Cordia ulei* var. *ucayaliensis* I. M. Johnst.
THESIGER, W.
s.n.—*Echiochilon thesigeri* I. M. Johnst.
THOMPSON, J. W.
7663—*Cryptantha thompsonii* I. M. Johnst.
12206—*Cryptantha subretusa* I. M. Johnst.
14129—*Cryptantha hypsophila* I. M. Johnst.
THURBER, G.
114—*Suaeda duripes* I. M. Johnst.
TONDUZ, A.
12881—*Jacaratia costaricensis* I. M. Johnst.
TOPPIN, S. M.
481—*Onosma chitralicum* I. M. Johnst.
TOWNSEND, C. H. T.
A93—*Fuchsia townsendii* I. M. Johnst.
248—*Lithospermum lasiosiphon* I. M. Johnst.
TRACY, J. P.
1744—*Cryptantha dissita* I. M. Johnst.
2094—*Cryptantha torreyana* var. *calistogae* I. M. Johnst.
TRASK, B.
s.n.—*Cryptantha traskae* I. M. Johnst.
TSANG. W. T.
11201—*Onosma tsiangii* I. M. Johnst.
21888—*Ehretia tsangii* I. M. Johnst.
TSIANG, Y.
9931—*Trigonotis cupulifera* I. M. Johnst.
11201—*Onosma tsiangii* I. M. Johnst.
TÜRCKHEIM, H. VON
11407—*Gilbertia smithiana* I. M. Johnst.
ULE
9716—*Cordia ulei* I. M. Johnst.
VARGAS C., C.
9790—*Cordia vargasii* I. M. Johnst.
VENTURI, S.
3887—*Schinus gracilipes* I. M. Johnst.
6633—*Margyricarpus inermis* I. M. Johnst.
7417—*Astragalus venturii* I. M. Johnst.
7716—*Anemone cicutifolia* I. M. Johnst.
9422—*Schinus bumelioides* I. M. Johnst.
9830—*Schinus piliferus* I. M. Johnst.
10126—*Astragalus hypsogenus* I. M. Johnst.

WANG, C.
70292—*Hackelia echinocarya* I. M. Johnst.
WARD, F. K.
492—*Onosma multiramosum* var. *mekongense* I. M. Johnst.
WATERFALL, U. T.
3993a—*Suaeda nigrescens* var. *glabra* I. M. Johnst.
WEBER, W. A.
5778—*Cryptantha weberi* I. M. Johnst.
WEBERBAUER, A.
1498—*Nolana latipes* I. M. Johnst.
1517—*Nolana lycioides* I. M. Johnst.
5385—*Nolana weberbaueri* I. M. Johnst.
6184—*Heliotropium polyanthellum* I. M. Johnst.
6213—*Cordia iguaguana* I. M. Johnst.
6332—*Heliotropium erianthum* I. M. Johnst.
7138—*Cordia varronifolia* I. M. Johnst.
7183—*Nolana pallida* I. M. Johnst.
7190—*Nolana plicata* I. M. Johnst.
7272—*Heliotropium arborescens* var. *grisellum* I. M. Johnst.
7369—*Eremocharis confinis* I. M. Johnst.
7382—*Bargemontia confinis* I. M. Johnst.
7404—*Heliotropium toratense* I. M. Johnst.
7424—*Salpiglossis albiflora* I. M. Johnst.
7455—*Bargemontia platyphylla* I. M. Johnst.
7457—*Bargemontia gracillima* I. M. Johnst.
7761—*Eremocharis dissecta* I. M. Johnst.
WEDDELL, H. A.
3454—*Cordia weddellii* I. M. Johnst.
WERDERMANN, E.
169—*Nolana werdermannii* I. M. Johnst.
728—*Nolana pallidula* I. M. Johnst.
730—*Nolana arenicola* I. M. Johnst.
919—*Porlieria chilense* I. M. Johnst.
1043—*Cryptantha werdermanniana* I. M. Johnst.
1439—*Astragalus werdermannii* I. M. Johnst.
WEST, J.
3705—*Fuchsia platypetala* I. M. Johnst.
3747—*Schinus microphyllus* I. M. Johnst.
7083—*Fuchsia austromontana* I. M. Johnst.
WHITE, S. S.
1923—*Haploesthes robusta* I. M. Johnst.
2440—*Talinum whitei* I. M. Johnst.
2469—*Aristolochia whitei* I. M. Johnst.
2650—*Eriosema laetum* I. M. Johnst.
WIGGINS, I. L.
115—*Heliotropium wigginsii* I. M. Johnst.
4305—*Pectocarya peninsularis* I. M. Johnst.
5107—*Cryptantha wigginsii* I. M. Johnst.
WILLIAMS, L. O.
10960—*Antrophora williamsii* I. M. Johnst.
WRIGHT, C.
669—*Salix taxifolia* var. *limitanea* I. M. Johnst.
1982—*Muhlenbergia abata* I. M. Johnst.
WYND, F. L.
100—*Mortonia latisepala* I. M. Johnst.
YU, T. T.
12909—*Onosma adenopus* I. M. Johnst.
14385—*Onosma fistulosum* I. M. Johnst.
16629—*Onosma dumetorum* I. M. Johnst.
17727—*Onosma microstoma* I. M. Johnst.

IVAN M. JOHNSTON'S

STUDIES IN THE BORAGINACEAE

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X. J. Arnold Arbor. 16: 1-64. 1935.
XI. J. Arnold Arbor. 16: 145-205. 1935.
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XIII. J. Arnold Arbor. 20: 375-402. 1939.
XIV. J. Arnold Arbor. 21: 48-66. 1940.
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XIX. J. Arnold Arbor. 31:172-187. 1950.
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XXI. J. Arnold Arbor. 32: 201-225, 344-368. 1951.
XXII. J. Arnold Arbor. 33:62-78. 1952.
XXIII. J. Arnold Arbor. 33: 299-363. 1952.
XXIV. J. Arnold Arbor. 34: 1-16. 1953.
XXV. J. Arnold Arbor. 34: 258-299. 1953.
XXVI. J. Arnold Arbor. 35: 1-81. 1954.
XXVII. J. Arnold Arbor. 35: 158-166. 1954.
XXVIII. J. Arnold Arbor. 37: 288-306. 1956.
XXIX. J. Arnold Arbor. 38: 255-293. 1957.
XXX. Wrightia 2: 13-22. 1959.
XXXI. Wrightia 2: 158-162. 1959.